

## SEQUENCE LISTING

<110> Gorlach, Jorn  
 An, Yong-Qiang  
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 Price, Jennifer L.  
 Raines, Tracy M.  
 Yu, Yang  
 Rameaka, Joshua G.  
 15 Page, Amy  
 Matthew, Abraham V.  
 Ledford, Brooke L.  
 Woessner, Jeffrey P.  
 Haas, William David  
 20 Garcia, Carlos A.  
 Kricker, Maja  
 Slader, Ted  
 Davis, Keith R.  
 Allen, Keith  
 25 Hoffman, Neil  
 Hurban, Patrick

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25 <212> DNA

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<211> 1250

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	agtttccagg	agaacaatct	taacttcaac	atgttggaat	tggatggtaa	atttggtgaa	240
	agcatcatgg	ggaagacttc	gatgcagagc	aatgtttata	atatgaatac	tgttttccag	300
	agaatgact	ttaagagtgg	aggcaacatg	aaagttaaca	agtataatgg	taatgttggt	360
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	gtgtctgtgt	ttgtgagaga	ttcgatactc	tttgaaacaa	agatttatgt	agaagaatat	1200
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   <212> DNA
   <213> Arabidopsis thaliana

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    tctatccctt aaagtttcgg aaaattctgt ttttctgttc tcattcttcg tgatcttttt 180
    cactttcttc aaaaaaaaaa catgtgtgga atacttgccg ttttaggatg ttccgatgat 240
    tctcaggcca agagagttcg tgttcttgag ctttctcgca gattgaggca cagaggacct 300
15  gactggagtg gcttatatca gaacggagat aattacttgg cccatcaacg tcttgccgtc 360
    atcgatcctg cttccggtga tcaacctctt ttcaacgagg acaagaccat tgttgtcacg 420
    gtgaacggag agatttataa ccatgaggag ctgagaaaac gtctgaagaa tcacaagttc 480
    cgtactggta gtgattgtga agtcattgct cacttgtagc aggagtatgg tgtggatttt 540
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35  <213> Arabidopsis thaliana

   <220>
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40  <223> n = A,T,C or G

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45  ctgtataaac gccaatttca ttaacaaaaa aaaaaaacia aaaaaaactg tccacatgaa 180
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5  gatacgttaag gaagttcacc acaaagatga acttaaggaa ctccgtggaa cccagacag 900
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<210> 32

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15 <212> DNA

<213> Arabidopsis thaliana

<220>

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20 <222> (1) ... (1245)

<223> n = A,T,C or G

<400> 32

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   ctctctttct cctctcacac tcacgaagca aagactgaag caaaatacag ataaaacttg 180
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   aatccaaaca tagagaacat agccaatctt cgttcttga gctccttcac cttcaactca 360
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   gcctctccga acttgactcc gttcctagcc aaaagctcag ggaagacgca gcctagggct 660
35 ccgagcatag cccacctgct gtggataact tctagctcac gggtccttgc gaatgtctcg 720
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45

<210> 33

<211> 1244

<212> DNA

<213> Arabidopsis thaliana

50

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<223> n = A,T,C or G

55

<400> 33

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30 <213> Arabidopsis thaliana

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10 <212> DNA
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    <212> DNA
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5    tcaactgtttg aagaactcgg tctttactat attggtccag ttgatgggca caacatagat    1140  
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<211> 1191

10    <212> DNA

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<220>

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<223> n = A,T,C or G

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      cctgcccga gtatagtagc tgcataagcc agagcgctct attagccca acgcctggta    180  
      gcatcatcga ggcctatata ttcagctgtg aaaggcgcc atctagcttc ccaaggaacc    240  
      aatcaaagta acgactgcat gagtatcgct aaccgagcac ctcaacagag agttcctccc    300  
      cttcctccaa gctttgagct tccaaagcat gtatttgtgc ttttaaggagc acaacgagcc    360  
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      tatcgtcgtg aagtgtatcc cagatagcgc gacagggttt ctgctggata ctgcgaaatt    540  
      ctttgtctgc cttgtcaacc aaggctgata attcatcgct gttgatacca tgcaatggca    600  
      ctgtcagatg tgtggtttcg accaactctg tcatacctgg gccnnannna ggtgccctat    660  
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      ctggctgagg cgttagagga gtaccagtta ccctgggcgc tgcccaagac ctgagtaatg    1140  
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40    <210> 48

<211> 1191

<212> DNA

<213> Arabidopsis thaliana

45    <400> 48

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      caaaacacat cggaaacgct ctttgcgtta acccaaaact tcaaaagtag taataaagaa    180  
      aataaaacaa taactctctt ttaggattag aaattattct aattacatag aatagatccc    240  
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      cctcgttggt cactttcaca tcggtcgcta aaccgataat ttcgaaaaac cgaacaatgt    360  
      accacgaaat gtctatttgc caccattcaa gtcttgtct agccgatgac tcgaacgcat    420  
      gatgattgtt gtgccaaact tctccaaatg aaaataccga taaccaccaa acattacgag    480  
      aagtgtcatt ggtcttccaa gttcgagtgc cccaaatatg gcagagtga tttatgaggc    540  
 55    aagtcacgtg cacttccaat gctgctccta ccccatctcc ccaagtaacg aaggacatgc    600  
      caccaaggta gaagagaaa aaacccaatc ctaaaatgtg aaatagcact gttttctgaa    660

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	tcctccacct	tctatcccaa	aacacccatc	tcctcttctt	cttctcctcc	tcacacgccc	1140
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	tgagctccac	caagcggctg	atggatcatt	atccttgagt	ttggtagact	gtatcttttt	480
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	gatccaccag	gagaattaac	atacatgaca	atatccttag	taggatcaac	agcatcaaga	660
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	caagcatgag	ccattttctt	gttatcaatt	tggggatgaa	tgaaacccta	gttccgttca	1140
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50 <213> Arabidopsis thaliana

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<212> DNA

25 <213> Arabidopsis thaliana

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55 <211> 1179

<212> DNA

5 <213> Arabidopsis thaliana

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<223> n = A,T,C or G

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<210> 54

10 <211> 1177

<212> DNA

<213> Arabidopsis thaliana

<400> 54

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	tgacttctat	cgacgatttc	cacgtcaccc	tcctgatgaa	ctactctact	gatgatttcc	1140
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<211> 1174

<212> DNA

<213> Arabidopsis thaliana

40

<400> 55

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20 <212> DNA

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30 <213> Arabidopsis thaliana

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35 <223> n = A,T,C or G

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<211> 1153

10 <212> DNA

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40 <210> 69

<211> 1150

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<213> Arabidopsis thaliana

45 <400> 69

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 45 <213> Arabidopsis thaliana

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20 <213> Arabidopsis thaliana

<220>

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25 <223> n = A,T,C or G

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<210> 73

50 <211> 1145

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55 <221> misc\_feature

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5 <223> n = A,T,C or G

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35 <221> misc\_feature

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<211> 1142

<212> DNA

<213> Arabidopsis thaliana

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<400> 77

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45 <212> DNA

<213> Arabidopsis thaliana

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<211> 1135

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25 <223> n = A,T,C or G

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50 <212> DNA

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<212> DNA

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<211> 1129

55 <212> DNA

<213> Arabidopsis thaliana



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20

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<211> 1124

<212> DNA

<213> Arabidopsis thaliana

25

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<223> n = A,T,C or G

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<212> DNA

55 <213> Arabidopsis thaliana

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 aaagttgaag aacagaagt tcatcgatac aacgatttgc aggtagccaa aaaccgtagt 180  
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   cttcatagag attttttaaag cagaaagatt acaaaatctg aagatcagta gttcagtaga      180
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45    <210> 103

<211> 1098

<212> DNA

<213> Arabidopsis thaliana

50    <220>

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     ttttcttttt cttttcttct caagtctata ctctaaaaaa ctataacnan gcttggtttc    180  
     tctcttttta tagtttnnat tccatttaag gaaatgtacc ggtcaagcga atatggtcga    240  
     gggttcgcct cagaccatgc ttaagaactg cttggttacc ttgcctgaac ccatcccat    300  
25    atgccgatga agaatccgac tcgatttgat gcttgnnnaa ctcaccaagt ttcttctcaa    360  
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     cgatgtctac taatgtagag ccagcataag tctcagattc caaccacatg tgtgctaaaa    480  
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     atgcatgcat catctcatga gcaaggattg acccggttaa caaacgagga agtccatata    600  
30    aaatgagaat cgagtgact tcacaacgac gtatcagcct gcaaggctct gtgatcatgt    660  
     ctattaactt gtagcctgcc ccaattcttg gtctccttaa caccgtggtg acagtttgtt    720  
     cttcagacaa acaaagtcct ctagtttcag gtaaatgatg atgtccgtgt ttctctcctt    780  
     ccatagcttc gtttagagct gatctctcca ccaaagcat aggaatttgc tgttccactt    840  
     tcatatgtaa gccttcgtaa aattcacgta tctcaaggta caatggttgg cattcatgag    900  
35    tgtccataat ggctgagtcg agacattcaa gacacagttt tcgaccatca tcaagaatga    960  
     gatattttgt atcttttggc tccattcgct cacaactgca acaccgagga gttccatcac    1020  
     gctcatgtga aggacaatac ttttgcaccc aaaagggatg tgccctatac tcaataagac    1080  
     cagctggacg gacg    1094

40    <210> 108  
     <211> 1094  
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<220>  
45    <221> misc\_feature  
     <222> (1)...(1094)  
     <223> n = A,T,C or G

<400> 108  
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     caagtaacat agacaatcat gatataggga acagagaaac tctacttttc actattattc    180  
     accgcacatt cagttcttga aacatattgt ccagggtgcac acatatcata tcaactctgca    240  
55    tcgtctccac cagcaccagg tttggcagaa ccattcgtct tatgagcatc gtctcctcct    300  
     tcttctgaga tgtcagaagt ccacaaggtc agattgtccc taaggagtgt cattattaag    360

5	gtgctatcctt	tgtaggattc	ctcgttcaga	gtgtcaagct	ctgagatagc	ttcatcgaac	420
	gcctgcttag	caaggtgaca	tgccctttca	gggtgcgttca	tgatctcgta	gtagaagaca	480
	gagaaattca	aagccaaacc	caatctgata	gggtgtgttg	gagggagctn	nnnctcagca	540
	gcagtagtag	caatctcata	ggctttcaaa	gactgatcag	cagcctcttt	cctctcgttc	600
	cctgatttga	actcagcaag	atagcggtaa	tagtcanntt	tcatcnngtt	gaagaagaca	660
10	gtagattcac	cctcnnaagc	cgaaggaatg	agatgctcat	ctaagacaga	cataatatca	720
	atgcatatgt	tagaaagctc	taactcaann	ttctccatat	actctttgat	cctctttaca	780
	ttaacatcat	tccctttcac	tgcttccttt	tgttcaatcg	acgagaagat	cctccacgaa	840
	gctctccttg	aaccaatcac	gttcttgtaa	cccacagaga	gtaagttcct	ctcttccacc	900
	gtcagatcaa	cattcaattt	cgcaacactt	ttcattgatt	ccaccatttc	ttcataacgc	960
15	tcagcttgct	cagagagctt	agcgaggtag	acgaaagtgt	cacgctcttt	tccagaaccc	1020
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20 <210> 109  
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25 <220>  
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 <223> n = A,T,C or G

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	aatgatcttc	atcttcatga	cgggataaac	tcttagagaa	agattcaaag	tgattatctt	180
	tgtggatccc	tccattgcta	tgtggaattt	agcttcaaaa	tcgatcagag	aagggttttat	240
	atcgaagggg	gaagaagctg	ctacaaaacc	aagaagagct	acttttagata	gatcaggaga	300
35	tggaagaaaag	acaacaaaagg	aagaaaaatt	ggagtgtccc	atttgctggg	aatcattcaa	360
	cgttggtgag	aatgtacctt	atgtcttatg	gtgtgggtcat	acaatctgca	agtactgtct	420
	cttagggctt	caacgtgcc	ttgtcatcaa	atcctctgct	ttaccattcc	agcttccctt	480
	cttcgttgct	tgcccttggt	gcaatattct	ctctnnnnnn	ctggtttgca	atggaaccat	540
	cagatttcct	tccaagaact	tttaccttct	gtggatggta	gaaagcatga	atggctccag	600
40	atcngannca	cccagcgaca	nnaaaagggg	tgcttcaggg	cagagagact	tgagaaatag	660
	gtgtgatgga	atgagtaata	cgccttgagg	tgatgaaggg	ttgctggaca	annncagctg	720
	gtggaatggg	gtgaccagag	gattcttcag	aactgggagg	ctccatgact	cgggtacgtaa	780
	gtcaatggct	cttggtgctc	atgtgttggt	taagtttcc	ctggtagtca	tattcctggt	840
	gatggcttta	tatgcaatcc	ctgtgagtg	tgcagttctc	gggggtttatt	tcnntgttac	900
45	gtttgctttg	gctgtcccg	cgtttctcgt	cctttatatt	gccttcccg	gcttaaactg	960
	gctgatcaga	gagattgcaa	cctgactcat	tgtactgttt	ctttcttctc	gtatgtttcc	1020
	tgacttgtaa	gaaacacgag	atagagccaa	cgttgtttac	actcaatata	gacaagaaga	1080
	agagaagatc	ttt					1093

50 <210> 110  
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55 <220>  
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5 <222> (1)...(1091)  
 <223> n = A,T,C or G

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 tgatctctta agcttaggcc agcatcgaat ttggaaaaac atggctgtct catggagtgg 240  
 agcaaaaaaa ggagattacg ttcttgattt gtgttggtga agtgggtgatt tagcgtttct 300  
 cttatctgag aaagtgtggt caactggcaa ggtttatggt cttagaaatg thtagcttgg 360  
 15 cttgattgta aaattgttgt tctgataact tggtaaatatt attatagggtg atgggcttgg 420  
 atttctcatc tgaacaacta gctgttcgag caactagaca gagtcttaaa gcaaggctctt 480  
 gttacaagtg tatagagtga gctcactggt ggattgaagg tgatgctatn nntnnnnncat 540  
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 gacttanagc tatgaaggag atgtatcggg ttttgaaacc aggttcaaga gtatctatac 660  
 20 ttgannncaa taagagcaac caatccgtta ctacgtttat gcagggctgg atgattgaca 720  
 atgtagtgtt ccctgtggct actgtttatg atcttgcaaa ggagtatgaa tatctcaagt 780  
 attcaatcaa tggctatcta acaggagaag agctagagac tcttgctcta gaagctggct 840  
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 ggtaaaggaa tagcgcgttt gactacactt ctacaccaga tatattgaca caatctttat 960  
 25 ctggattttt ataagaaaag agaaacgctt tgcgttagga tgatgcagat aatgtagagg 1020  
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 gatcccaaaa a 1091

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 30 <211> 1091  
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 ttcaaggaga tggagataaa gtttgtaacc gggatcttaa agtgacaaaag cgtatgaagc 180  
 aacctatcta tgtttattac caacttgaga atttctacca gaatcaccga aggtatgtaa 240  
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 40 agcctgagga tgatgttggg gggcagccga ttgtgccgtg tgggtctaatt gcttggagtc 360  
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 gcattgcatg gaagagtgc aaggaacaca agtttgggaa caagggtctt cccaagaatt 480  
 ttcaaaaggg gaatatcaca ggtggtgcta ctttagatcc aagaataccg cttagtgaac 540  
 aagaagatct cattgtgtgg atgagaaccg cagcattgcc aacatttaga aaactttacg 600  
 45 gaaagataga gtctgacctc gagatgggtg acaccatata cgtaaagctg aacaacaact 660  
 acaacacgta cagcttcaat ggaaagaaga agcttggttt gtcaaccact agttggctgg 720  
 gtgggaagaa cgatttcctt ggcattgctt acctgacagt tggcgggacg tgtttcattt 780  
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 50 ctctaactctg cgtgtgtaaa tcttatccat ccatgtacac atacaatgta atttttgctt 960  
 acatactatg taatccttgc ttgcaaaatg gtttcttcgg tgagagctta aatcccacat 1020  
 aatactttgt tgttggttgt ccaaaccagt ctaatatatt acttttgtcc ccaaaaaaaa 1080  
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55 <210> 112  
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5 <212> DNA  
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10 <222> (1)...(1090)  
 <223> n = A,T,C or G

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 atatgaatct tcatgaggaa gaagaagacg acgacgccgt ttacgactct cctcctctct 180  
 ctctgtgttct ccccaaagcc tgcacagaaa gtcattgaaac caccggaact acttccacag 240  
 gcggtggcgg aggtattcatg gttgttcacg gcggtggagg gagcagggtt aggttccgtg 300  
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 25 agtttacggc tgagcaaaaag gaaaggatgt tagcttttagc tgagaggatt ggatggagaa 720  
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 accaaccatg aatcttgaat ttctttgatc actaggggtt taatttagct taattaatta 960  
 30 cttgagaaat ttgagagaca aggtttttat tgtttaattt atgtacccat tttcctcttt 1020  
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<210> 113  
 35 <211> 1090  
 <212> DNA  
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 gacaccggag ctacggtcgc tccgatcggt aggtctgagg aggttgccgt cactaccggc 180  
 gaggaagacg aagatgccgt ccttgatctg aaatcgaaac tttatcgatt cgataaggat 240  
 gcgaatcagt ggaaggagag aggagctggt actgtgaagt tcttaaagca taagaacact 300  
 45 gggaagattc gtctcgttat gaggcaatct aaaactttga agatctgtgc taatcacttc 360  
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 gctcgtgact ttgctgatgg tgaactcaag gatgagcttt tctgtatccg atttgcttct 480  
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 50 gagacaaaaa cggaggagaa aaccgaagcg aaagctgtgg agacggcaaa gactgaagtg 660  
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 55 tgaatgctga gtcgttatgg gtctaatagt ttttgagtc aaagtgtcgg gtgatatgag 960  
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5    ttttaagttttt ctcatggatc ctttttggat ggtcttattt tgaggataca aatgtgtttg    1080  
      tccatggaca    1090

<210> 114

<211> 1089

10    <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

15    <222> (1)...(1089)

<223> n = A,T,C or G

<400> 114

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      ttacatgatt gatacatcca ccaagacaat gactaaagag atagcctttc tctattcaac    180  
      ttgtgaaagg agagaccctt ttcacgtctc tcattccctc attcgttctt tgtctactta    240  
      catgtacact ctctcctaca tcttttttcc cattcttgca aatcttctgg ctactccgaa    300  
      tatcaccgcc tttgtcaaca gccctttgtc caatgtacat gcaagtgcaa tcgcccctcc    360  
  25    taccactagt atcttttggtg tggttttccc cgttggcttg tctcctgtaa cctctgctat    420  
      cgaacccttc tcattcatga actcctctgc actcactttg gtgttgatat gagccattat    480  
      ggcacttggtg gataaacctg ctcccgtgc tttggccctc tgatatgcac gtaggectgg    540  
      ctcaattttc ttgactgcac cccacatacc ctgtctcacc ccgagctttg caatctccca    600  
      gggatttccc atatcttcat ggtgaaatag tagtacctca catgatgtca tctcaccatc    660  
  30    gcctcttttc gattcaactg cacggatgcn ncagcttgna tagtacaagt cgactcgcct    720  
      tggcttgttt tgtcttggtg cagatgggta ttgtacccc ttagtaatgc agtaaaagac    780  
      tcggccagca tcccataata gacggcctat aatatactct ctgtcgctac aaaagaaggg    840  
      gaactttcgg acccattgca caaccatagt gcccggtgtc tcgcaacgct cgagagtaga    900  
      agaatacaaaa agcatatcat cccacttgga acggaactca tcatcccaaa agaagtcctt    960  
  35    gaccatctcg ggagtggcat cctcaaacac agttctgcta cggtagctgg gagggccatt    1020  
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<210> 115

40    <211> 1088

<212> DNA

<213> Arabidopsis thaliana

<400> 115

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      aaaggactca gaggtttttg aatggcaaga ccggatgaga aacctggaaa ggaagtggct    180  
      tttctcgttt gcaggagccc cacgacctga caatccgaaa tctatcagag ggcagatcat    240  
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  50    atgccatgca ccaagcagca ttatgcaaat gtttcaaagc tctctcttct gcctgcagcc    360  
      acagggagac tcttacaccc gaagatcggtc atttgactca atgcttgccg gttgtatacc    420  
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      cacaacctac tcggtattca tccccgagga tgatgttcgg aagagaaaca taagcatcga    540  
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  55    cctcatccca aggtgatct acgcagaccc gagatcagaa ctggagacgc agaaagatgc    660  
      atttgatgtc tcggtacagg ctgtgataga caagggtgact cgggttaagga agaacatgat    720

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	attttgttac	ggttttgata	tagttttcgg	ttactattta	tacggacaaa	aaatgattta	1020
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<210> 116

<211> 1088

15 <212> DNA

<213> Arabidopsis thaliana

<400> 116

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	ttaaaaaaaa	aacagagaga	tttatccaca	caaagacaaa	ccaaattgaa	aaaaaagaat	180
	gaaaaataag	tttttttttt	ttgttccttt	ccgtttcttc	ctttcatttt	tttgttacgt	240
	acaaagatgt	tttcatacaa	gagaagtaat	cataccatct	tgaaaacaaa	tcaaggcttt	300
	ggtggttcag	ccactggcgc	tgtcgtcgtt	gtctccggtt	ccttaactgg	agtttcaacc	360
25	actgccggag	ccggagtagc	ctcttccttc	ttctcctcta	cctctggttt	cttctcctcc	420
	acgaccgcgg	tttcaggggt	ctcgcccttc	tttgtctctt	caacaatctc	ctctttctca	480
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	ttcttagcac	tatttttctc	gaataacttc	ttgaattttg	gaacaacctt	ggaattccag	960
35	taaccatctc	ttttgttggt	taatctaaat	taaacttctc	aacgtgaaca	aatttgaaac	1020
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<210> 117

40 <211> 1087

<212> DNA

<213> Arabidopsis thaliana

<400> 117

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	aatcccacct	caaacatgta	cataaacgcg	tttagaacat	tgtggtttga	aattattttc	180
	tcaatgtaac	tcaaacatgt	aacgaaagag	aggggacaag	acaagaggga	gaagatgctg	240
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	caaagctcct	caatccaccc	gacgacgtaa	agaaacaacc	tttagggaaa	ggaccataag	480
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5	cgtttgtgat	tttgttcagt	ccatactgct	gcttcagaaa	cggtaggttc	tcaatgtgtc	780
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	gattatcaag	agagtaagca	acaaatccag	aagatccgaa	gttaagcgtg	acggagttgg	900
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	acgagtgtgg	actctgtaaa	gcttcagggc	tattcgccac	cgtcttctca	aacacagcga	1020
10	gcatttttct	cagtgatgat	tttctcggga	aaataaaatt	tgcagaaaaga	agaaaaacgga	1080
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<210> 118

<211> 1085

15 <212> DNA

<213> Arabidopsis thaliana

<400> 118

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	gtggaaggct	tttgacggct	aaggattttc	cttctgttgg	ttctaaacgt	gctgctgatt	300
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25	tagggtcaca	caggatgaac	agtttggtta	ataaccaagc	tacaaagtca	gcaagagaag	420
	aagaagaagc	tggttaagaag	aaagtgaag	atgatgaacc	taaagatgtg	acaaagaaag	480
	tgaatgggaa	agtacaagtt	ggatttatta	aggtgaacat	ggatggagtt	gctataggaa	540
	gaaaagtggg	tttgaatgct	cattcttctt	acgagaattt	ggcgcaaaca	ttggaagata	600
	tggtctttcg	cactaatccg	ggtactgtcg	ggtaaccag	tcagttcact	aaaccgttga	660
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	tgcttgttgg	tgatgttcca	tggagaatgt	tcactcaact	ggtgaaaagg	ctacgtgtga	780
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	gttttgcaag	tctgagatac	ttctgaagca	agcataagct	agattgatct	tatatccagt	960
35	ttgtgtattt	tcttggttct	tataatgggt	tttactgggt	ttcttttagt	tttttttttt	1020
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<210> 119

40 <211> 1084

<212> DNA

<213> Arabidopsis thaliana

<400> 119

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	tcaaccttcc	ctgattcaga	tgaactgccg	tactttgaaa	gtgatacata	tgttgcatat	180
	aacaatgaag	atggaggagt	aattgaaaaa	ctgaagaaag	atgggattgt	taatctggac	240
	tctcagctac	agtctctttc	ggattattta	cttttgaagg	ctcttattgt	gtcttggcta	300
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	tactattcag	atcttccttg	ggtgatcagc	aaggctcctg	tttataagca	gacatacttg	420
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55	caagcgttac	cagttacatc	agtgccttcg	tgcaaaactc	tggacatatag	taatcttgtg	660
	cgatatgctg	agaaaactta	gtcagagttc	cttgaagcct	cttcttcata	tccttcacct	720

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	ctggagtatg	aagatgaaga	tgactaaact	aaagcttttc	ttattaaatg	gaccggtaac	960
	tctcaggcga	actctctgag	actaagataa	aaacataacc	agtaatctct	acgctttttt	1020
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<210> 120

<211> 1084

15 <212> DNA

<213> Arabidopsis thaliana

<400> 120

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	aaggttgaag	ctaagaaagg	agaatgggtg	cccggtttgg	catcgcctga	ttatctcacc	300
	ggcagtcctg	ccggtgacaa	tgggtttgac	ccgttggttc	tagcagagga	tccagagAAC	360
25	ttgaaatggg	tcgtccaggc	agagctgggt	aacggacgat	gggctatgct	cggtgtcgct	420
	gggatgcttt	tgcccggaag	tttcaccaag	atcggaatca	taaatgttcc	tgagtgggtac	480
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	ttgtttcatt	acgttgagat	cagacgggtg	caagacatca	agaaccggg	aagtgtgaac	600
	caagacccta	tctttaagca	atacagctta	cctaagggtg	aagtgtggtta	ccctgggtgga	660
30	atctttaacc	cgcttaactt	tgctcctacg	caagaggcca	aggagaaaag	gctagcaaac	720
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	ggaccatttg	agaatctgtt	gcagcacttg	tctgacctat	ggcacaacac	tattgtccaa	840
	accttcaact	aaagagtga	gacagactta	tgatctcata	cctatctatc	ttccatcact	900
	ttcatgtctg	tctgtgagtg	tgtttcatct	tagagttctt	ggtttttgag	cttgaattat	960
35	tgttgaaccg	ttgtagctcc	atgaacaaat	ttggaatctt	caatgtacag	aggaactaag	1020
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<210> 121

40 <211> 1083

<212> DNA

<213> Arabidopsis thaliana

<400> 121

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	caatccgccg	tgaggtctac	gaaggaggta	agatatacga	catcagccat	cgttacacgc	180
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50	gaactcacgt	ggaatgtcca	ggtcactttt	gggataatta	ttacgatgct	ggttttgata	360
	ctgattcgct	tgatctccaa	gtcctaaatg	gtcctgcttt	gttgggtgat	gttccgagag	420
	ataagaacat	tactgctgag	gtaatggaat	cacttcatat	acaaagagga	gttcgtcgtg	480
	tgctcttttag	aacatccaac	accgacaagc	ggcttatgtt	taagaaagag	tttgattcaa	540
	gctttgctgg	gttcatgacc	gatggggcta	aatgggttgt	tgagaataca	gacatcaaac	600
55	ttattgggct	tgattatctt	tcatttgctg	cttttgagga	atcacctgca	acacacaggg	660
	ttataacttaa	aggacgggat	ataatcccag	tggaagcgct	gaagctggat	ggtgtggagg	720

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<210> 122

<211> 1082

15 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

20 <222> (1)...(1082)

<223> n = A,T,C or G

<400> 122

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 agcgctttgg tttggcaata tcgggatgca gatccaggct ttggttcttt acaagcgaag 180  
 gaaatgctag agcatTTaga gagtgTtcta gctaattgagc cagtggcagt caaaagcggg 240  
 cactacatag tagaagtcaa gcctcagggg gtgagcaaag gatccgtgtc agaaaagata 300  
 ttttcatcaa tggccggaaa gggaaaaccg gttgatttgc tggttatgtat tggagatgac 360  
 30 agatctgatg aagacatgtt tgaagcgatt ggtaatgcga tgtcgaaaag gttactctgt 420  
 gataatgctc tagtctttgc atgcacagtt gggcaaaaagc caagcaaggc taaatactac 480  
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 cttattacta ttattattgt tatttgaat tggatgatct cttgaggata tcaaatttgg 960  
 40 attcggctgt ttattggatc tgaacgaaaa cgaaactgtg aagaaaatgt ttgtaaagat 1020  
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<210> 123

45 <211> 1081

<212> DNA

<213> Arabidopsis thaliana

<220>

50 <221> misc\_feature

<222> (1)...(1081)

<223> n = A,T,C or G

<400> 123

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5	aagaagaatt	caaaactatg	agaagaaaan	nngaagaaga	aagttgattc	gaaatctgaa	180
	aagcgaaatg	ggtaaanng	aagctctcaa	tcttcaacct	ttgggcctct	gtataacgct	240
	ccaactacgt	tagtatgatc	ttctggatta	tcatcccttt	cttgagacca	tgcataacct	300
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<210> 124

<211> 1081

25 <212> DNA

<213> Arabidopsis thaliana

<400> 124

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	gcaagattat	acgtcgtttc	agtaccataa	aggagctctc	ctcaccggag	acgtttccat	180
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	gaaaaacctc	aaagacttgg	ccgcaaaagg	tggccaaagc	tacgcggtta	acgtcgtgtt	480
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	aacacaatgt	ccaggacaat	gcgcgtggcc	attccacgcg	ccggtttacg	gaccgcaaag	660
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	actgaatggg	agaaaatatt	tgttaccggc	tttgtttgac	cctaaaacag	attcttgctc	960
45	gactctgttt	tgaataccta	ttagtatacg	ttagatacga	tattctttta	tttatacttt	1020
	atatattcgt	ttttgtaatc	ttctttaatc	agtatgtaat	gaaattattt	gttattgact	1080
	a						1081

<210> 125

50 <211> 1081

<212> DNA

<213> Arabidopsis thaliana

<400> 125

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5	cgttgaaaat aaaggacttt attgatcgaa ataaaaaaga tagtggggttt cttttgaaat	180
	attattaata atgggtcgttg cgtgtaaatt tggaggcatg tttctgtata atctgccatg	240
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	ctgctgaaga cgttgtgcca acagtggcac aaatgaagaa agggataaaa cccttagcga	960
	gatcatgaga aatagcttcc tcaagtgatt ctggaggcat tccatagttt gtggaagaat	1020
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<210> 126

<211> 1079

25 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

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<223> n = A,T,C or G

<400> 126

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	aataataaca agtctcattt tattggaatg gtctgagaaa tcaatatgta gtagacaagg	180
	ttagcttttt tgctaagcat agagttgtct tgaggtctaa acaagtcttt caatatatag	240
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	ccacattacg ctatgttctt gaactagtct tcagttccaa caacagacgc ttcattgttg	360
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	aaaccattct tgatcagcaa ttcagctact ttogacgagt taccatcaaa attatcaaga	540
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<210> 127

<211> 1078

55 <212> DNA

<213> Arabidopsis thaliana

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<220>  
 <221> misc\_feature  
 <222> (1)...(1078)  
 <223> n = A,T,C or G

10

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 agagaccttg tcgacgaaga aatttggtga agatgggaag agattcgagc atcttgcatt 180  
 15 tctgaatttg gctcagaatg taatctgctt ggtttggctt tatataatga ttaagctctg 240  
 gtccaacgga ggttctgggt gagcccatg gtggacgtat tggagtgtg gcattactaa 300  
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 aagatacact ttgcctgagt atctttgcac ctttcttggt gccggaggag tatctatggt 480  
 20 tgcccttctt aagacaagct ctaaaacat cagcaagcta gcacatccca atgcaccct 540  
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 ttaccaaatt tacctgaaat ggaggaagct gcagagaatg cagaagaaga aaaaggcctg 1020  
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<210> 128  
 <211> 1078  
 <212> DNA  
 <213> Arabidopsis thaliana

35

<220>  
 <221> misc\_feature  
 <222> (1)...(1078)  
 <223> n = A,T,C or G

40

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 aaaaaacaga gtacgtagaa agaaactagt ttaaaaaaac tattgcaact tcttcttcca 180  
 45 tctcagtttc aaggcttgag tgcgagagcc aatccaactt tagcactctt gtcaattgac 240  
 tttgtgtcga cttctccaga gattgtgaag aatgacttgg gtttccactc gtgttgaatg 300  
 agagcacttg caataccgcg actattgaca cgagccttca cagaggtcaa ggggtcaagc 360  
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5	gcaacaccgg	caggagagaa	agtggtgata	ctgaatttct	ggtcactgtt	gtgggtctttg	960
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	cagacccgag caagggttgc cactctcaca ctggtacaaa tttcacaaca agctctcaat	180
	ttgggtccaaa ccagaaaaaa ataaaaatga atgatgagt acgagtaagg caagaacaaa	240
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20	atcgactgat attacatat ccagagtaaa gaaaaagcac aggcgagcgt attcttgatt	360
	acacgaatga agtcaagtgc atcatgtttg gcttgatctt accggtatcc accaccatag	420
	gattgttgag ggttgtaacc accttgacct atcatcggat ttagttatt gccaggcatg	480
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	cccatgttca tgttcatgtt catgccgggt cccattccca taccatcgg ttggttttgg	600
25	ttcattccgg ccccatacc cataccatg ggttggttct ggttcatacc tccgtagcta	660
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	ctcatagcag ttgcaccaga acgccctaag ccagtgcctg atcccattgg tttaccata	780
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	gagattgcct ttgtgtttct gtatactcgt gtatcttgta aaacgtgaaa cctgttgta	480
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<211> 1072

10 <212> DNA

<213> Arabidopsis thaliana

<400> 131

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tcgcacaaaa accaccaccc ttgattccta catgcatagc catgtctctc tcctaattgt 300  
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<210> 132

<211> 1072

35 <212> DNA

<213> Arabidopsis thaliana

<400> 132

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5

<210> 133  
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 <212> DNA  
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10

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<210> 134  
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 <212> DNA  
 <213> Arabidopsis thaliana

35

<220>  
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 <223> n = A,T,C or G

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 aataccgtac gatctctaga ggaggaactt cgattcttga caaccttaac gctttgctcg 180  
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	agaaattcat ttgattgctt cctaggttcg cagaggtatg tgtgtgtata gtatacactt	1020
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10 <211> 1070

<212> DNA

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	ttggttatat aaaccagaaa tgaaaagagg gagagagaaa aaaaagactc aagaatcaga	180
	atgaaactct gatcttattg ttttgttagt aaataagatt taatcaggcg acatagtaga	240
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	tcaggatgtt ccagtcacga gctgagacaa ttccggcgaa gaggaatgtg agggtagcg	1020
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35 <211> 1069

<212> DNA

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<223> n = A,T,C or G

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	gcagatgatt caaatgaaaa ctacacgact catgactaat ggaaacacgt ttctctgaaa	180
	cgtgaatcat cttagataga tttaaagcaa aagaaagaga tgcaaagtcc cgactgaaatg	240
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<210> 137

<211> 1068

<212> DNA

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<400> 137

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25	aacagaattt	agataaaggg	ttcaaagctg	ttccgtttag	tcatcattca	ccgatgaact	180
	tgcgcttttt	agaggtgttc	atgtacgggc	ttataaccca	ttcgatctct	gcttcatttt	240
	gttccacagt	tcctaatttc	acctggtaga	gccgcaactc	aaatcgagga	ccgatttctt	300
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5 <211> 1062  
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<400> 144

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<210> 146

<211> 1062

10 <212> DNA

<213> Arabidopsis thaliana

<400> 146

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<211> 1059

35 <212> DNA

<213> Arabidopsis thaliana

<220>

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<400> 147

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 <211> 1058  
 <212> DNA  
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 35 tatctatctt cttgtagtgc atttggtatg tataattgat ttgcattctg acacttctgg 960  
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	tctatgccgc tcatgctcac gctcgcgat cgtacggtt tgtccatggc taatagctag	1020
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	gttgctgttt ggctcgcaag tccccattt tgagcttgat gtctgtctgc atgagctttg	360
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	ggcacgacca ttacccaag tgatatcaaa gctctcatag aagtttccgg cagatgcagc	960
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	ctcaccactg actttggcga caataactga agcatagtga gcaatgtag cctcagggga	180
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	cgctgtctct ttcttgcttg ggttcaaggc aagagtgcag caatccgcaa ctagcctcag	360
	taacgtttgt aaagctccct tggagactat atcttcacag agtttggttg agtttcggac	420
	aagggtgtct aatgcaccag ccgcgtttgc ttttgtcttg tcttcttcag ccgtggtcaa	480
	aacgtttgct agctgcgtta tagatcttct tagctcttca tacagcgtgt cgttatggta	540
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	togatcaatg aggagaccga tgatttgatg ttccgcaaga gcgctgtaga aatatccatt	660



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<211> 1054

15 <212> DNA

<213> Arabidopsis thaliana

<400> 156

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	cgctcctgtat	tcaagtataa	aacaaaggca	atcgagaaca	atctgaatcc	tgtctgggat	240
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	ctgaagggaag	caggagtgat	aggtagcaca	atggatgcag	tcgggatggg	gggaagtggg	600
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	ttttttcccc	tttaactctc	tcgaacttga	tttctggatt	caactgcagta	atttgttttc	960
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40 <212> DNA

<213> Arabidopsis thaliana

<400> 157

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	tcatctttat	gcgactttgt	ttgcttttct	tctttcagtg	ttcttggtat	tcacagttcc	1020
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<210> 162

<211> 1050

<212> DNA

20 <213> Arabidopsis thaliana

<400> 162

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25	gttgataaag	attgcggcac	caaacctaaa	tggaagcatc	aatgaagct	caccgtcgat	180
	gacgcagcgg	cgctgacaa	tcgtcttact	cttggttttcg	agatcgtggc	ggatcgtccc	240
	atcgctgggtg	ataaacctgt	cggtgaggtt	agcgttccgg	tgaaggagct	tttggtcag	300
	aataaagggtg	acgaggagaa	aacggttact	tacgccgtga	ggttgccctaa	cggaaggcg	360
	aaaggatctc	tcaaattctc	gttcaaattt	ggggaaaagt	atacttatgg	atcttcgagt	420
30	ggtcctcacg	cgccggtccc	ttcggtatg	gatcataaga	ctatggatca	gccggtcacc	480
	gcttaccgcg	ccggacacgg	tgacccgtct	gcataccctg	ctcctcccgc	gggtccttct	540
	tccggatatc	caccacaagg	acatgacgat	aagcacgggtg	gtgtttatgg	ataccgcag	600
	caggctggat	atccagctgg	aaccggtggg	tatccgccac	ctgggtgcata	cccacaacag	660
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	tctgacatcg	ctgatatggg	tgacatgggt	gacatgggtg	gtttcgattt	ctgattgctg	960
	tggtatcaag	ttttaatttc	ttaggataat	tgctctaagt	tttttcgttt	gatgaatcat	1020
40	gtgaagaacg	tgagagatca	aaaaaaaaaa				1050

<210> 163

<211> 1049

<212> DNA

45 <213> Arabidopsis thaliana

<400> 163

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50	caagtacaaa	agagtgaag	actattcacc	agaagcctgg	aaaacaatct	caacactgcc	180
	accacatgaa	aatggaatga	attcaaagaa	tgatataaat	ggttaattct	aatgtgggca	240
	aaccgaaaag	gaaagtttta	tggggttttc	aatcttcttc	tttactgag	accgtctcaa	300
	atgtggggct	gtggtatatc	cttcgaagaa	atccaacact	gcggtttcaa	gattttcaac	360
	agagtatttc	aagtagtttt	cgggatgtct	tccgctctct	atatgtcccc	tgaatcttcc	420
55	aagaaaggat	ctataagccg	ggataagatg	ctccgataga	gatatcctga	gttcttctct	480
	aagctgagta	tccggaaccg	accatgtcga	ttgaatcctg	tgaacctctt	caaacattgt	540

5	attgaaagct	ttaaacctct	ctcttaaagc	actcttcgat	acaccggaag	agaagcttcc	600
	gctcacatgt	aatccttcat	ctctcaagct	attcaacacc	ctgacccatg	tagctctctg	660
	atacttggtg	gctgcttgtc	taaatatccc	ggtaagcttc	cttaaatact	tgtctcctat	720
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	agagatatcc	atatccggat	cgtttcgatc	attggtacat	ttcaaaccct	gacatggttt	960
	cgtcgatgat	agatcaatca	acgtttccct	atagtcagag	atcaagttga	ggtaattcat	1020
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15 <210> 164  
 <211> 1049  
 <212> DNA  
 <213> Arabidopsis thaliana

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	tatagacaag	aaacaacaac	acatgtgatt	atctttttga	cggatttaac	gaccaagcga	180
	tgatagatcg	atgagattga	ttgtacctca	catagactga	gcttatatgg	agattggcct	240
25	ctagatgctt	ggcctcacgt	tcagacggct	tgcaagtttc	tgtcccaagg	atcgatcagc	300
	ctgagaccag	taagagatcc	agacgccgcg	gatctcgtgg	gtgagacgtg	gctccgatag	360
	aatctccacc	catctcttaa	caaacctgtc	ttgcctgtct	ggtgcccatg	atctgtacct	420
	gtctccagcc	tgtttgaagt	tgttctcttt	cttgatgacg	cactttgttc	gaattccagt	480
	gtaggagttt	gtaggggtgg	gaactttctc	agcgcagcgg	acaggatcaa	actttgaggg	540
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	gtggtgagca	catttgggag	cattgactgg	aagctgcaaa	taattcggtc	caaggcagtg	660
	tctctgagtg	tcaccataag	caaagatcct	acactggagc	agcttgctcg	ctgagttagta	720
	gattccagga	accacaagac	ccgggttgaa	cgcaagctgc	tcagtttcat	tgaagaaatt	780
	gtcaatggtc	ctgttcagaa	ccaagcgacc	aaccgggtgc	agaggcaaaa	tatcctcagg	840
35	ccagatcttg	gtcacatcaa	gtgggtcaaa	gtcaaaactta	tcctcatctg	caggatccat	900
	ggtctggatg	aaaagtgttc	actcggggta	ggtgccagat	gcaatggcat	cgtggagatc	960
	cttagtggcg	tggtctgtgat	tggtctctcc	aacaaccttg	gcctcttcat	cagtcagatt	1020
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40 <210> 165  
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 <212> DNA  
 <213> Arabidopsis thaliana

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	aaggcgtatt	tctacgtttt	tggttacaaa	tgcaacaattc	cccgaagaaga	ttttgatgat	180
	gaagcctatc	accagtttgt	acgtaagtgt	agatgctgcc	accaaagaga	gcttgaaggc	240
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	ccaagagaag	cagcagcgaa	ccgtctaccg	tttaacactt	gtcaaaggat	ggaacacaga	360
	ggagctagat	gcttatttca	acctattcag	cattgggaaa	cctgatttta	tcgagatcaa	420
	aggcgtcaca	tactgcggat	cctctgcaac	gtcaaagttg	acaatggaga	atgtaccgtg	480
	gcacacagat	gttaaagcat	tctcagaagc	tctgtctctg	aagagcaatg	gggagtacga	540
55	ggttgcttgc	gagcacgccc	actcttgctg	tggtcttcta	gggagaacgg	aaaagttcaa	600
	agtggatgga	aagtgggttca	cttggtattga	ctatgaaaag	ttccacgata	tggttgcttc	660

5	tggagaaccg	ttcacgagca	cagactatat	ggctcaaaca	ccatcgtggg	cggtttatgg	720
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	tcctaaacca	caggcggttt	tagcttaaga	aaggagtagg	ctaaagcttt	tttgtttttc	840
	attgtcgtct	tcatatccta	aaccacaggc	gatttttagct	taagacagga	ccaagctaaa	900
	gctattttgt	tagcctttta	agcttcttct	tcttggtcta	aagctttttt	gttttttgtt	960
10	gtcatctaac	agtgttaact	tgtggaaaga	tgtaaagtt	tcgaaatcat	atcaaaaactt	1020
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<210> 166

<211> 1045

15 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

20 <222> (1)...(1045)

<223> n = A,T,C or G

<400> 166

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	catccaattt	aagaaaagcc	ttatttatgc	aagaaaacc	caaccaaacc	caaaaatgaa	180
	ttagtaaaaa	tataaagaag	atttgaaata	tattgtatca	aatgtaatat	tatatccacg	240
	cttctgtagt	tcattagttg	aatctcctgc	agttccttct	gatctcaccg	ttacgaccag	300
	taagcacatc	aactgctccc	atcttcacca	ttgctctaac	gaactgacgc	ttgaagaagg	360
30	cgttggtatt	agcataccga	gccacaatcc	cacgagtctg	tgggtcggat	gcgaggcggt	420
	ggtcaacttg	caacactcct	ctccttttac	ggatttgctt	gaagaactgg	ttgtcgaatc	480
	tcaatggact	cgactggtct	agtgcgcgcg	tcgcgctatt	tctgcatgtg	ttccttaggc	540
	tggttaacc	agcgggggtc	atggacgggt	ccggtcgtcc	agttcnnnnn	nnnctagtga	600
	ttctgtcact	aaagagacca	caatttcctt	gaccannagt	gtgtgcaccc	aaaagagcta	660
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	cgatgtcagc	acatgagact	gtggaagggc	atgcagcttc	tagctgagcc	ttgatccggt	900
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40	aatcaatgag	gagagaagcg	tcacagccct	taacgaaaca	gtcgtggaaa	tgcatacggg	1020
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<210> 167

<211> 1044

45 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

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<223> n = A,T,C or G

<400> 167

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	caactttgtc	cacttggttcg	gagatcgaag	atgggatttt	gtagcgaaag	tttcaggttt	180

5	gaaggtggag	ggagaaacat	aagaataggt	ttaaacagaa	caggaaagag	ttgcaggtta	240
	aggtgggtta	attacctgca	tcctgggtctc	aaacgtggta	agatgactcc	acaagaagag	300
	cgtttagtcc	ttgagcttca	cgccaaatgg	ggaaacaggt	ggtcaaaaat	tgcccggaaa	360
	ttaccgggga	gaacagataa	tgagataaag	aactactgga	ggactcatat	gaggaagaag	420
	gctcaagaga	agaagcgacc	tatgtctcct	acttctcat	cttcaaactg	ttgctcatca	480
10	tctatgacca	ctactactag	tcaagacact	ggaggctcca	acgggaaaat	gaatcaagaa	540
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	aacgttatta	aaccggtaaa	agacaactac	tactcagagc	aaagctgtta	cttgaatttc	660
	cctcctctgg	cttctccaac	atgggaaagt	tccttggaat	ctatatggaa	catggatgca	720
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	tgactaatac	tcataagtag	tcatcatctt	atgcctttgt	ttagtttgta	gagtgagtga	960
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	gtgaaaaaaa	aaaaaaaaaa	aaaa				1044

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<210> 168  
 <211> 1043  
 <212> DNA  
 <213> Arabidopsis thaliana

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<220>  
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 <223> n = A,T,C or G

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	aagaaaagta	gaaagaaaaga aaaaaagaaa ctgataggtc tcacttcaat ttgaggctca 180	
35	agaattaacg	aacaaactag aacaagaaca aagaagaaga agtagaaaaa aggcgggaag 240	
	tggggctcgac	actattcaag aaattgcaac ttgaccccaa acaatattca aatcaatcaa 300	
	tttagacccc	caaaaaatca gtccgataca ggatttgggg agncagatga atgagaaacc 360	
	tcctcaatga	gtctggtgac ttcagccatc gaaggacgac tatctnnnnn cngagccgta 420	
	cagctcatat	cgatcttcaa taaacgaatg atgtttctcat tgccctcngg ttggtacctt 480	
40	gtgagctcgg	gatcaagcac atcggacggg gtttgttgct cggtaacaga ttggacccat 540	
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	aattcaagga	ttaggacgcc aaagctatag acatcagctt tttgggatat ttgcgagca 660	
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	atgggagcaa	gaccgtaatc agagananna gcttcatagg agtcagataa tagtatgttc 780	
45	gaggacttaa	tgtttccatg agaagttgtc ccatcacgcg aatgtaggta gctaactcgt 840	
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	cctttgttcc	cgtgcaatat cgcagacaag cttccttttag acatgtactc aaagacaaga 960	
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<220>

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	cacctttttc	tgatattttac	aacttatcaa	tacatgatgt	ttttcaaatt	ttctaattcc	180
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	ttttcagatg	cactcattct	tcattttttg	aggtctttcc	attttcttca	tttggttggt	300
15	acaaaataac	tcaaacctac	gttgggtcac	gatgtcgagt	tgcccaactt	gagctcaagg	360
	ctctaagccg	ttgaaaatac	tcaccaagag	ctaataatcc	tcgagccgct	tgctcgcttg	420
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25	ttagttcaca	tatctgtctg	ttctgttctt	caacccaatg	tccatattcc	atttcaaagt	960
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<400> 170

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	agcctatcca	agaaagtata	taaacctcct	ccaagtagaa	gagcaccact	tatgggattg	180
	atccatgcag	agacctttcg	caacgaaagt	aagctctgta	aagctccggc	aaaagaagca	240
	gcgacgataa	gtggagcgac	gtaacctgtt	gtataggtta	agagtaagct	tccaccaatt	300
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55	atcatcttca	agtctgcggc	ttttgctgag	ctaagagtta	ccaagttcgc	cactcctaaa	960



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<210> 171

<211> 1042

10 <212> DNA

<213> Arabidopsis thaliana

<220>

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15 <222> (1)...(1042)

<223> n = A,T,C or G

<400> 171

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aaggagatca ataagcgggt ccaggaagct gtagaccgcc cagaaattag agaaaagggtc 180  
gaggcaatca aagctgaggt tgcgagctca ggagcttctt cttttgacga gttacctgat 240  
gactgaaaag aaaaagttct gaagactaaa ggggaggtcg aagcagagat ggcgggtgtg 300  
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25 cagatctatg ccgcaaacga aaaccttcaa gaaaaacttg aaaagctgaa ccaagaaatc 420  
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cttctggaac atgatttctg gattggaaca agcgtttgaa gttgactttt gtctttggat 960  
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<210> 172

<211> 1042

40 <212> DNA

<213> Arabidopsis thaliana

<400> 172

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cgcattttaac caaaaattgc ataccggttc aatcaaacaa cagaacagac caatctcaga 180  
aaatctgcag ccatttcacc atcattgcta tatgttgctt tgaacttcac tcttgcgagg 240  
ggaaaacttt gtcagtttct tcttgaagct atatgagttt cttgggatac agcaatacaa 300  
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50 aactctgtcc aatatgccac cgtgtccagg gatgagttag ccggagtctt tgacaccgcg 420  
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	ccgctgaagt tatcgagata tctatatgac caaaatacaa tgtaagtatg ggcataagag	960
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	agcttgatga ggatgttcaa tgaaggctct gaagtatcct tcaatgggtc tccaattgtg	480
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10 <211> 1038

<212> DNA

<213> Arabidopsis thaliana

<400> 175

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	tgatgtctca	ggccattctc	taaattttct	agcccttaca	acatcaagaa	gattatctgg	240
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<210> 176

35 <211> 1038

<212> DNA

<213> Arabidopsis thaliana

<400> 176

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	gttctaataa	gctctcgggc	attcaagtca	tcatcatata	gagctgcagc	aggacagact	180
	caacattatc	ttgctcgaag	ttcattgcct	gtcgtaaaaga	actcgtgggg	atcaccacct	240
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<211> 1038

10 <212> DNA

<213> Arabidopsis thaliana

<400> 177

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<210> 178

<211> 1037

35 <212> DNA

<213> Arabidopsis thaliana

<220>

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<400> 178

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	ttattttttt	ccaaaggatc	attgtatcat	catattatca	cttccacatg	aagtttctct	180
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	ctggtccaag	cgtagttaac	agatccttta	aagatgtcac	ggcaattaga	aacaatgtct	480
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 <211> 1036  
 <212> DNA  
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	aacccgaggt	aaatatccct tcttgacttt gatcctgcac tttctttggg aacctcttgt 480	
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<210> 181  
10 <211> 1035  
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<210> 183

<211> 1035

<212> DNA

15    <213> Arabidopsis thaliana

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 20    caatagacaa agattcatct aaaaatgatc caacggccag aaaccatta cgatgcaaat    180  
      taaaaaagca aatcacgaaa aattcatcag attaacaacg ttgaatttga cgtcttcagt    240  
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      ctggaattgg ctgccaccg gtggcaaagc taaggaggaa acaagcggcg acggagccaa    660  
      gaagctgagc aatccagtag agaataccac ggaggagagt gatgttacca ccgagtaaga    720  
 30    caccgaaggt aacggcaggg ttaacgtggc caccggaaat gtttagcgcca acagagacag    780  
      cgacaaagag accgaaagca tgagctaagg cagcggcgac gaggccggaa ggagtgggtg    840  
      ctccattgtc agtgatcttg ttgaaagcaa ttccggagcc tgatccggcg aagacgaaga    900  
      tcaaagtcga gataaaactca gcgagcgccg ccctaagtgc gttgggggtg tagacctctt    960  
      cttggactcc accaatggcg atgtttctgg tcggcatgat cggagaaaga tttaacggct    1020  
 35    gaggttaaaa gcttt    1035

<210> 184

<211> 1033

<212> DNA

40    <213> Arabidopsis thaliana

<220>

<221> misc\_feature

<222> (1)...(1033)

45    <223> n = A,T,C or G

<400> 184

     aatcgtaaaa taaacgacgc aaaactcaga ccaaacaaca tccatctaca caggcaggag    60  
      tcatgtttat caatgtatag aggaaaaaat aagtcgttgt ttaccttaca caaagctcaa    120  
 50    atttgagata ttcttttagtc gatcttcttg ctcccgaaca ctttcatttt ctctggtaaa    180  
      atgccattga tgaacataaa aattgatgat accaacaacaa ccttggaac agcagttatt    240  
      atgacggaag atgatccggt ggttgcaaca aagttatgat agagagtaat cagaatgact    300  
      atggcaatga gagtctgctt tttccattga attgtttcag taacttctgt tttgggttga    360  
      ttttgagctt tcaagtgtga gaatgaatct attgtcctct ttataacctt ctgaagtggg    420  
 55    acaacaggag aatagnntaa acgatnnnnt gcttttgaag aatcaaagt tctgttgcaa    480  
      gagagtagcc taaccctaga aggtgttagc actggtactt tcatcccata cgggtccgagt    540

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5  aatttatatg ctagnnnnnc aagatatgct attggcatca tgagacttgc aggtatcttt 600
   atacttggnn nctcatagcc aagtccttca agaagctgtg acataaactc ccaaaattta 660
   attggctcca tgttggtaat gaagtaagcc tggccagcag cttttgcaca tacttctcct 720
   cctgatgcta gagctcgctc agcacagaca tgggcgtgca caacattttc aacataagtg 780
   aaatcataga agttactccc atcacctata atgaacttgg atttcccagc cctggcagca 840
10 gtaacaagcg atggaaccat taatttatca ccaggaccaa atatgctgct aggacgtatg 900
   caacaagtga gtagtccact tcttccattc gctttcaaaa tcaaagcttc cccttcagct 960
   ttagtagctg aatatgaatc attatgctta ggtggatacg gcagtgattc atcagcattc 1020
   aaagtagcgg ccg 1033

15 <210> 185
   <211> 1033
   <212> DNA
   <213> Arabidopsis thaliana

20 <220>
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   <222> (1)...(1033)
   <223> n = A,T,C or G

25 <400> 185
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   tgacaagctc ccagaagaga ggaaacttga tttgctcaaa gcacttgctg atatttctcc 120
   atacacaact gctcaggaag caaggcagct gcttccttca atcgttgagc ttttaaagat 180
   atacatgcct gctagaaaga ctggagagga aatgaacttc acatacgtcg agtgtttggt 240
30 gtatgcgttt catcaccttg cccacaaggt tccaaatgct acaaacagct tgtgtgggta 300
   caagattgtg accggccagc catcagacag attgggggag gacttctcag agttgaacaa 360
   agactttact gagagattaa ccattgttga ggatctaact aaggcaacga tgaagaaatt 420
   aactcagggg atgactgagc acaacaaagc catgtcggct nnnnngacag atgaagagaa 480
   agcaggtatt aaaacaaann nnnagaatac tacaactgga cttaggacct gtaataacat 540
35 attggcgatg acaaagccat tgcattgcaa agtgccacct tttatcggag acactaatct 600
   caacctgtct tggaaagaag ccacaaagcc gttagcctca acaacaacaa caattggagg 660
   aaagcggcct gctaatagca acaatggaag tggtaacaat gttgcagcaa agaagggacg 720
   tgggtcgggt actatgcaaa accagcttgt gnncaaggcc tttgagggga tatcatccta 780
   tggagctggg agaggcggaa accgaggttg gggaagacgt ggaggtgggc gaggaagagg 840
40 acaaggaaga ggtcactggt aataacaagt ttccagtaga ggattccatg actgtgtttc 900
   tgtttctgtg tctgtctgtc agtacaagtt ttgattttgg tacttagtag agtttgagaa 960
   cttctcttct catatcagaa tagatcatct gtgtttttct ctgttcacta aagatatattc 1020
   gagcattaga aaa 1033

45 <210> 186
   <211> 1033
   <212> DNA
   <213> Arabidopsis thaliana

50 <220>
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   <222> (1)...(1033)
   <223> n = A,T,C or G

55 <400> 186

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   cttcgatggc agcaacttgt tattccttgg agacgcagag cttgggcctt cctctgatgg      120
   tgtaagccga tccggagcct tatccatgac ccgagacgag aacccattct ctcattggta      180
   aggtctttac atcaatcaaa tcccattcaa accttcaaac acttcttctc ctttttcatt      240
   tgaaactttc ttacttttct ccatcactcc tcgcacccaa cctaactccg gtcaaggctc      300
10  cgccttcatac ataaccccg aagctgataa ctccggtgct tcagggtggc gatatactcg      360
   aatcctcaac aaaaccaacg atggaaagcc agagaaccac atcttggcta tcgaattcga      420
   tacttttcag aacaaagagt ttctagacat tagtggtaac catgttggag ttaacatcaa      480
   ctcaatgact tctcttgtcg ctgagaaagc tggttactgg gttcagacaa gagtcggtaa      540
   aaggaaagtt tggctgttta aagatgtgaa tctgagcagt ggagagaggt tcaaggcttg      600
15  ggttgagttc agaaacaaag actctacgat tacggttaca ctgcgcctg aaaacgttaa      660
   gaaacctaag cgnnctttga tcgaagctcc cagagtgtctc aatgaagttc ttcttcaaaa      720
   catgtacgcc ggttttgcgt gttccatggg acgtgccgtt gagcgtcacg atatttggag      780
   ctggctgttt gaaaacgcgc ccaaaaacaa ctaaacccgt ttggttctgt ttataggcta      840
   agtatcgttt gttttgtttt tactttttta gtaattgctg catactactc agtggttaact      900
20  agagtgaata attatggttt gaataaaaca agccaagtgc gtggtttcat tactccggat      960
   tgccatattt gtattcagtc tgattaattc agatatctca ataaaaagaa ctttgttttc     1020
   atgtaaaaaa aaa                                     1033

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<210> 187

25 <211> 1033

<212> DNA

<213> *Arabidopsis thaliana*

<220>

30 <221> misc\_feature

<222> (1)...(1033)

<223> n = A,T,C or G

<400> 187

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   cttgtttctg cttcgttcgc gacctcggaa gtgccgttca tgggtggttca caagaaagcc      120
   actctcaaca ggctcaaata tggcgccgaa cgcgtctccg tttcctaaga catctataac      180
   caaggatcct cgtcggcgta tgatgtgact ctgacagata atagctggga taaaaagact      240
   tttgaagnnn ntaatggaaa cacttcaaaa tcatgggaaa gacttgatgc aggaggtatt      300
40  ctgtctcatt ctatcgaatt ggaggccaag gttaaaggag tcttctacgg tgctcctgct      360
   gtcgttactt tccgcatccc cactaagcca gctcttcagg aagcatactc aactccacta      420
   ctacctctag atatcctcgc agacaaacct ccaacgaaac ctttggacgt ggccaagagg      480
   ttgctggcga aatatggatc actcgtctcc gtgatctcca tgggtggttg tttcatatac      540
   ttggtggcaa cacctaagtc caacgtatca aaggcaagca gcaagaagaa gcgttaagtt      600
45  agtgaaatga aagggtgagaa aggttggtac ggtgctgttt tctgtttaac agttaaacac      660
   agtttcaaaa cttgtaagaa ttagagaaca cactttaatt ttggtgttgc agaggacata      720
   cttcaagttc aaagagttat tttggtttta cttaatctct ttgtgagagc atagtcattg      780
   agttctcttt tatttgggtt atgccttttg cttatggttt tggtagcatt atcttttaca      840
   catgttgata atctttgttg tgttaacttg tgtttgttct tgtctagtgt cattgcctgt      900
50  tctgtttgct ttgtagtctg ttttaatacca catttttatt tgttggtgtt gtagagtcta      960
   gtctggttat tgggtaagta ttatgatttc gcctagaagt ttttttctgt tttgataatt     1020
   gctatgtttt ctt                                     1033

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<210> 188

55 <211> 1033

<212> DNA

5 <213> Arabidopsis thaliana

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<400> 188
tcgagcggcc gcccgggcag gtaaaaaatc aaatctctct ctttctctct ctaatggcgg      60
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10 acgaagagat ggttcaattc atggaacagc tcgttacagg cgctactcca gcggaagagc      180
tcaccgttga agagaggaat ctctctctctg ttgcttacia aaacgtgacg ggatctctac      240
gcgcgcgctg gaggatcgtg tcttcgattg agcagaagga agagagtagg aagaacgacg      300
agcacgtgtc gcttgtcaag gattacagat ctaaagttga gtctgagctt tcttctgttt      360
gctctggaat ccttaagctc cttgactcgc atctgatccc atctgctgga gcgagtgaag      420
15 ctaagggtctt ttacttgaag atgaaagggtg attatcatcg gtacatggct gagtttaagt      480
ctgggtgatga gaggaaaact gctgctgaag ataccatgct cgcttaciaa gcagctcagg      540
atatcgcagc tgcggatatg gcacctactc atccgataag gcttgggtctg gccctgaatt      600
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aggcttttga ggaggccata gctgagcttg aactctctgg agaggaatcc taciaagaca      720
20 gcaactctcat aatgcagttg ctgagggaca atttaaccct ttggacctcc gatatgcagg      780
agcagatgga cgaggcctga ggatctagat gaaggggggg aggggtgtta cgcgatgttt      840
ctgccaccaa atcgatctca aaatcccatc aacctttgct caaaaactgt gaaaaaagat      900
tgaagtgttt atgatgatta tgattgtgca cagcttgatg atttatctac tctactaaac      960
ctctgtgctc ttaatattta ttgtctcgac tctgctcaag ccttaaaaac atctttctcc     1020
25 ttaaaaaaaaa aaa                                     1032

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<210> 189

<211> 1032

<212> DNA

30 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

<222> (1)...(1032)

35 <223> n = A,T,C or G

<400> 189

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ccaacaaaacg ttttacaaaa gctgatgcag ataaatttat ctataataga ctgtcagatc      120
40 ttgcaggtag cctcctgaag agattgagcg gcacagaggg tagcttgtgc ctgaaccttg      180
gatgcctcag cacatagatc ccagcaagaa gtgcaacaac ctgaaacggc gtaacataca      240
acacgatagc agctatgaga cagaaaagca caaacaatgt ggttgccctc ggggtctctcc      300
agctcagcag cgataaaaaa cgctctccct gtgttgctag atcgctatc acggtctgaa      360
cccgtcctcc tatgcttctg agccgggtcat atcgcatccg cacaatctca gaggatcggg      420
45 aagtcgggaa agtatcaaac tcttcatcaa gctcgtcggg gtgaacagcg tctgcatggg      480
acaaccgtgt gtccatgtgt ggcgggtgcc ttgggtctcca cgggaaattc cagatcccaa      540
tcaagaaaag gtacaagaaa accgttggga ggattaattc cgggtaaaga actaagataa      600
tgaaaagaac atgaatgaga attgtgggta ttgggtttct ccagttgcag atctgatcaa      660
accattttcc aacagcaatg agaccactca gaacattcat gattctgaag aagttagctt      720
50 tactcctcct catgctccac atatgggagt caacatcgag catgtactcc acaatctctt      780
tgcaagaggc cggctctgcg cgggttcagcc ttgccgagac aatgttcatc gcctgggtgtc      840
tcaggctgtc cagctggaga accgataacg gatnnatgtn ntgcattntg ggtagtaatg      900
gctgagaata catatgaagc atgttgatga gagataggca agtgaaccgc acagctaact      960
gtatttcacc tgtcttcttg atcccagaag gatgaaagac gagtagcgga tatgaatgag     1020
55 tgtagatacg gt                                     1032

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5 <210> 190  
 <211> 1032  
 <212> DNA  
 <213> Arabidopsis thaliana

10 <400> 190  
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 acccggtcctt ttcacccctc gatggcattc cttgttcgtt cgcgggagat acccaccgtc 180  
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 15 aaggctacgg tttcggcgat tgacgccaga gatttgcctg gtgttaagaa tccgaaatcg 300  
 agattgtact ggcaattctc agctccggtg aaagaagact acaagattag cagagaggag 360  
 gaagaagaag aagaagaaga taagcagagt tactacgtga atatgggtca cgcggttcgt 420  
 agtatcagag aagagtttcc tttgttgttc taaaaagagc ttaattttga catttacagg 480  
 gatgatattg ttttcaaaga ccctatgaac actttcatgg gaattgataa ctacaaatcc 540  
 20 atatttgggg ccttacgttt ccatggaagg atcttcttca gagcactatg tgtggacatt 600  
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 cctcgtggtc cgtgggagac tcgtggtcga ttcgatggta cttctgagta taaattcgat 720  
 aagaatggca agatttatga gcataaagtc gataacatag ccattaattc gcctccaaag 780  
 tttcaaagtc tcaactgttc agagcttgtt gaagccatta gctgcccttc gactcccaag 840  
 25 ccgacctact ttgagttcgg agattgattc atcatcatcg tctgaaacat catgctggtg 900  
 ttatgtatac tagtagtctt ttgtgtggtt ataaatagag tggtagtgta atatagatga 960  
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30 <210> 191  
 <211> 1031  
 <212> DNA  
 <213> Arabidopsis thaliana

35 <220>  
 <221> misc\_feature  
 <222> (1)...(1031)  
 <223> n = A,T,C or G

40 <400> 191  
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 cgagtttctc agcttttctc ggatcatcta attagagag gagatcttgt ctacgggtgg 180  
 45 gattgatttt tctcttcacg aagatcgtgt tccaggcaat taactgcaga aaatggtgat 240  
 gtgggtcttt ggctatggct ctcttgtgtg gaaccanna tttcactacg atgagaaagt 300  
 gttaggtttc atcaagggat ataaacgtgt ctttgatctt gcttgcatg atcatagagg 360  
 tacaccagaa caccctgcaa gaacttgac cctcgagaaa gctgaagaag ccatatgctg 420  
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 ggaacgtaga gagtgtgaat atgatctcaa gacaagtgt gacttttaca aggaagatga 540  
 50 tctctataag ccagctgtaa ctggagtgat agtattcact tctactcctg acaaggctct 600  
 caacaagtat tatctcggac ctgcgccatt agaagacatg gcaagacaaa tgcgcacagc 660  
 caatggacca tgtggtaaca acagagatta tctcttctct ctcgagaagg caatgcacga 720  
 cattgggcat gaggaggact atgttataga gctggcaaac gaggtgagga aggttctggc 780  
 cgagtcctcg actaagaagg tgacaccggt gaaggaatca agagcaagcc gtgtagctaa 840  
 55 caagtcgaag aacaatgtcc ccacggctca tcagatacta cctcatcatc cagaagctgt 900  
 tgccactaca atataactct ttagtgtttc ttcttaattg gctttagaga tgagtgaat 960

5 cagggtctttt ttttaataat aataacaaag taagtttggt ttctgagtaa aaaaaaaaaa 1020  
 aaaaaaaaaa g 1031

<210> 192  
 <211> 1030

10 <212> DNA  
 <213> Arabidopsis thaliana

<400> 192

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	accatgtctt	cgctgacgcc	attggccacc	acatccaaaa	tgtcgttggt	cacgaaggcg	180
	aacatgactc	tcacgggtct	atcaggagtt	gggactacac	atatggtata	catttagtca	240
	tttacttata	ctttctctct	atatatttat	cactttttacg	gcctatgtgc	gtccgaaact	300
	atggtttttg	tgggtctactg	ccaaatatga	aatactacat	atgatcatta	attaaggaat	360
20	ttgtttctata	agacccaaaa	catatataat	aatcatatct	tgcatttatg	tttacatatg	420
	aaaacgaaaag	tcatatgttt	aaaagtaaaa	agtattttca	tatttgagaa	taattttgaa	480
	aaatataaac	ggaaaaacat	gatagtcaga	tattaatcct	tatggtataa	ctagctagtg	540
	ggatgtttgga	aattgttaact	aataaacaca	tgtgtgtaag	atggaaagaa	ggagatgttc	600
	aaagagaaga	gagagataga	tgatgagaat	aaaacattga	cgaaaagagg	actggatggg	660
25	cacgtgatgg	agcatctcaa	agtatttgat	atcatctacg	aattttattcc	caaatctgag	720
	gatagctgcg	tctgcaaaaat	cactatgata	tgggagaagc	gcaacgatga	ctttcccgaa	780
	ccaagcggct	acatgaaatt	cgtcaagcaa	atgggtgttg	acattgaagg	ccacgtcaac	840
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	gtcttttcga	taatcaatat	aataaagggg	gtcttggtga	gtttctattc	tctgtaactg	960
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	atgagtatta						1030

<210> 193  
 <211> 1029

35 <212> DNA  
 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

40 <222> (1)...(1029)  
 <223> n = A,T,C or G

<400> 193

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	gaagatcatg	aggaggagga	agcagagttt	gtgaaggaag	aggtccatct	ttnnngataa	180
	accccatgtc	taaacccac	gaagtannnn	nnctagatg	acagtgaata	aaccaaactc	240
	ctggattatc	cgcattttatc	ctaatecgccg	cccatcctcc	cgtcggcact	gcaaanntat	300
	tcctctccgg	cggatccacc	aagttgtacc	ttttcggatc	cttctccggg	tcanaattcc	360
50	caaatcctct	tcctactacg	aagaaattgt	gtccgtgtac	atgtaaagga	tgattctcga	420
	tgtttaagaa	actcgttccc	tgaaacacga	tctctaattct	cgatccgaat	tcgacttcga	480
	aaagcttcgt	accgaattct	gtgttcattgt	tttccgatan	nnntctact	cccgtgaaat	540
	cgaatctgtt	cgggtggtttc	tctgggaaat	cgagtgaaga	aactcctttg	ctctgtttct	600
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55	cgaagaatct	cttccctgcg	taaccgtcgc	aggtctgatt	taacggacaa	tcctggagat	720
	tgagacttat	cgtggtgatc	actcgtttgt	ctatcttcgt	cgggacttta	catggatact	780

5 tcgctgatcc cagacttttg atgctatcgg agaatttcgt cgcgaatttc gtatccagca 840  
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cggaattttc cggtttggtt ttaccgggtg aacggatgaa tcctacgggtg gttgagttgt 960  
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gttggtcgg 1029

10 <210> 194  
<211> 1028  
<212> DNA  
<213> Arabidopsis thaliana

15 <220>  
<221> misc\_feature  
<222> (1)...(1028)  
<223> n = A,T,C or G

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ctggtttcat gttcctgtct tacaattata caaggctaag taagcttaca ttctttgatc 180  
25 acagaccgga ccgtgattca tctgagccca ccacagcttc tgattagatc aatcatcctg 240  
tcagctcctc catttggtccc cgagcaatgt atggttccgc atcagtagct ttgaggaaat 300  
gcatagaatg acgggcaaaa tttgttggtt tgtcactcag cagattcct tcataaatat 360  
catccaaaat tctgacctg atataaggat cttnnnggagg gaccatatcg acattcaact 420  
cgattcctac ttttcccatg tatgatttta gagcaaccga atggtttttg aagtattcct 480  
30 tctctagtgt agtgagcttc tcttggtttt cagaggggaag gtcgagaagt tcaagcccta 540  
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gcttggttccg gatcaagca aggtggtgaa ttagtgctcc atagtggta gcgtttctgt 660  
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35 gacctttctc tccggtggca aaatctttga taagctgata cctttttctc ccgtacatgt 840  
cgaatcggcg ggtctcctcg cttcactttg acatctattc ggtttgtgga tgaagcaaat 900  
cggtgctgat gtcgccgaat taacggatga taacaaaacc gtagatctaa acaaacgta 960  
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gatttcca 1028

40 <210> 195  
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<212> DNA  
<213> Arabidopsis thaliana

45 <400> 195  
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<223> n = A,T,C or G

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	ttccgatgcg	attcttcgtt	gattgaattc	tgggatttga	aaacttctctg	ctcgcgaatt	300
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35 <222> (1)...(1024)

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15 <213> Arabidopsis thaliana

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 25 gatgatgact ccagaatggt tgctgttgcc actgcattgt tgtcaaagcc tccctcagag 480  
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20 <212> DNA

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<400> 211

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45 <212> DNA

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<400> 212

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<213> Arabidopsis thaliana

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<211> 1014

<212> DNA

<213> Arabidopsis thaliana

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<212> DNA

15 <213> Arabidopsis thaliana

<400> 217

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	tagctcggat tactacgtcg aatccgtctc cggggagaga gagattgatt gatgaatcgc	900
	gttcggcggt gttgaaagcg gtggaagaaa cgaggacgga ggcgtcgcag ccgttgggga	960
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<212> DNA

<213> Arabidopsis thaliana

40

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<223> n = A,T,C or G

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	attatcacca aacaaaagac aatttacaga agaaagatac catttttctc tcagactcgg	180
50	tagttttcgg gaagaggcat aacaccatca aagaaatctc caaaatagcc ggatggctca	240
	tggacaagtc ttgcaatgat gtctctaaaga gtgatgagtc cttcaagggt accaaaatca	300
	tccacaacat atatcctatg gatcttctcc gcgtctaaca tcaagatcag ttccttttagt	360
	gtatggttct tcgtgcaagc aatcacacca ctcatgatag gagctgatgt atccccgcac	420
	ttctcaagat gctctctaac agatactaag aagttcttcg ttgtgattga cctgtagtca	480
55	tggtagatct cagggtgcagt gaggagaaat tgaacatctc taaggcttat gttgcctact	540
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 gcgcattcng ncagcatatg tataactcct gattgtgtga taatgttctc gatntttgct 780  
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 10 atatctcgaa ccttgggtgtt cttgtatagc tctgaagaag taaggacctc aaagaagttt 960  
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<211> 1013

15 <212> DNA

<213> Arabidopsis thaliana

<400> 219

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 gatgggtttt gaaatccaac aacataagaa aagaaataga ctcacaaact gagacaagca 180  
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<211> 1012

<212> DNA

40 <213> Arabidopsis thaliana

<400> 220

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 ttgggtgtgt cttcctcctt gaagccaatt cctgaacctt ccgatgctt gtcgtcatat 720  
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 atagtcagac aaggaatctt atcatgtttt ctcggattct ctttcccacc aatcaacctc 180  
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 ccaatcttag ctccctcacc gattgntata ttccccaata tacaactccc agtccaatc 300  
 25 aacacaccat caccaatctt cggatgccga tcaccactct gtttccctgt tcctcccaag 360  
 gtcactccgt gtagaatcga aacattgtct ccaaccaccg ccgtctctcc gatcaccacg 420  
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 ttgcttggtg ggttttaaatt gctgagcttt acggagagga tgtgagctaa agcagactct 780  
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 35 gtgtggtgaa tcttccgggt tacagagaaa ccgggtcgaa agaaattctt gatgcaacag 960  
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5    ttcattgatcc catcatgggc accgcnnngct gaaatcctag cccannnnnn ngttgggtggg    540  
      tttttaaacac attgtggttg gagctcgacg ttggaaagcg tcctttgcgg cgttccaatg    600  
      atagcgtggc cgcttttcgc cgagcagaat atgaacgcgg cgttgcttag cgatgaactg    660  
      ggaatctctg ttagagtggg tgatccaaag gaggcgattt ctaggtcgaa gattgaggcg    720  
      atggtgagga aggttatggc tgaggacgaa ggtgaagaga tgagaaggaa agtgaagaag    780  
 10    ttgagagaca cggcgggagat gtcacttagt attcacggtg gtggttcggc gcatgagtcg    840  
      ctttgagagag tcacgaagga gtgtcaacgg tttttggaat gtgtcgggga cttgggacgt    900  
      ggtgcttagt aatggttact gttttctagc tcttttagtg ttgaatttac ttgtcgtttc    960  
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      ttctccagcc gttcagaatc atcttaaacg ggtttatttg accttatgtt gtgctcttgt    180  
      ggcgtctgcc tttggagctt acctccatgt gctctggaat atcggcggta ttcttacaac    240  
 25    gattggatgt attggaacta tgatttggct cctttcatgt cctccttatg aacaccaaaa    300  
      aaggctttct cttctgtttg cgtctgctgt tcttgaaggt gcttctgttg gccccttgat    360  
      caaagtggca attgatgttg acccaagcat ccttatcact gcgtttgttg gaactgcgat    420  
      agcgtttgtc tgtttctcag cagcagcaat gttagcaaga cgcagggagt atctctacct    480  
      tggaggactg ctttcatctg gcttgtctat gctaagtgtg ctccagtttg cctcttcgat    540  
 30    ctttgggtggc tctgcatcta tctttaagtt tgagttgtac tttggacttt tgatctttgt    600  
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      ctatgtaaaa cattcgttga cctttttcac tgactttgta gctgtgtttg ttcggattct    720  
      catcataatg ttgaagaact cagcagataa agaagagaag aagaagaaaa ggagaaactg    780  
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      <211> 1008  
      <212> DNA  
      <213> Arabidopsis thaliana

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      <223> n = A,T,C or G

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      aaaagcatat aagaaagaag aagtgtgcaa caagacaaaa ggaattggta aacaagaaag    180  
      ttcaaagtca actttttttg ggttcaacgt cacaaatacg caaagtaaac gactcatttg    240  
      ctttgtctta tcttggcctt cctcttctca ttgacaaaga agacgacaag agccacgacg    300  
 55    gagaagacac tgaacagat ggaggcaata tctagggacg cgtggcggcc actgatagcc    360  
      tgaacgctga agagattggt tttcttggca tcgtcgggtg tctgtccata ggcaacttca    420

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	agattgtgtt cctctctctg cacaagtgtc tgtgttgtct ccgtccagct gagagatggc	960
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	cagttaaaagt cacacacgat tgatgaaatt agagaggctg tgagaaggga caataagcaa	420
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	gaggattctt ctgaaccttg attatgtaat gttgtctcag tgttttcaat tgcacatatg	960
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	atagcattta	ttccctttgc	tttgcttctt	gctgtgggaa	caaagttgga	gcatgtgatt	180
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	ggcttcgact	cgtgcattat	gggacagggtg	agatacattg	ttccaagatt	ggttatcggg	420
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20	tgaatctgtt	tgtatattgt	attatttgga	acattgtgga	tgcccatgga	tatgtttctg	960
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<210> 227

<211> 1006

25 <212> DNA

<213> Arabidopsis thaliana

<400> 227

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	atataaaaaca	ttagccgttt	caaaaacactt	tcaatatgag	acagaaccga	gtccttctct	180
	gctacattct	tcataaaaga	aacttgtcac	aatagtttcc	acatcctgca	atccaaactcc	240
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<211> 1004

<212> DNA

50 <213> Arabidopsis thaliana

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55	aaaataccta	atcacgaact	gttacatcaa	atctaaagca	gaaccagaac	aaaatagaga	180
	acacacaaaa	ccaagtagaa	gcataacaag	cgagagagag	aacattcatt	ggtaatccca	240

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   gcaaataaag aaaacgaaaa tggagttttt aaaaattatt aaaacaacaa aagaaaaaaa 180
   aaagaagaag agttgttacg aggcgtgaaa gatgcgttgc ttcttgctac acaccaacga 240
   taacatctca gtatcggttca ctcttttgtt tcctacgacg tcgtttcttg aactctccgg 300
35 tgaaatgtta actccgaaca atctcaaaac ccgaccgcga tctaaatctg acccggtatct 360
   cgacttccac ccaatgtaca actgttgatc ctgaccgtta gatctactga aactaaccac 420
   gtcaccagca cgtagattct tctccttaac gaacctgctc caacctttag tcaaaacata 480
   actctgacta ctgttccaat acgagtaacg gaacctccac actttcccgt taacgtcctc 540
   aaagttcaac aacactcctt tcacggaaac gttacttgac ggtaacggaa aatgtttctc 600
40 tgcgtgatgt ttccgtataa ccaaaccggt tagcttccca acgtcgcttg gcgttacccg 660
   tttctcaaac agtgccctcc cggattttaa ctccgtcgta gaaacacccat cattactcaa 720
   ccccgacggt aacaacgtcc tagtcatgtt tccgttacca ttacgacgcc gtttactctg 780
   ctctaactct tcgtttataag tatgtttcct caacatatca acgatctcag atttcgaatg 840
   agaattcaag aaatcgacct cgtcttcgtc catcttcacg tctttgaaat ttgtgacggc 900
45 gtcacggcga cggaaacctgt gaannnnnnn nnnntaggca cgagcggctn nntcttcttc 960
   gttgaatgtc ccgagccaca cgcgctggtg tttctcgtaa atc 1003

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50 <210> 230
   <211> 1002
   <212> DNA
   <213> Arabidopsis thaliana

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55 <220>
   <221> misc_feature
   <222> (1)...(1002)
   <223> n = A,T,C or G

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5

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gtatgtctca agccttgtac tttgtaggag acttcaagct tggtcactac atgaagattc      180
10 ctccaagatc aatgttcacg gtccagcttg ttgcaactgt ggttgcacat actgtctgct      240
tcggaacaac ctggtggctc attacatccg tcgagaacat atgtaatgtc gatttgcctc      300
cggtgggtag tccatggact tgtcctggag atgaagtgtt ctacaatgca tcaatcatat      360
ggggagtgat tgggtccagg agaatgttta ccaaagaagg tatctatccc gggatgaact      420
ggttcttcct tatcggtctc ctcgctccag ttcccttctg gtacctatcg aagaagttcc      480
15 cagagaagaa atggctaaaa cagatccatg ttcccttgat cttctctgca gtaagcgcca      540
tgccacaagc taaggctgtg cattactggg cctnnnnnnn nnnnnngnnt gtgttcaact      600
actacatctt caggagggtt aaaacttggg gggcgaggca caattacatc ctctctgcgg      660
cgcttgatgc aggtactgcg attatgggag tgttgatatt cttcgcatc cagaacaatg      720
atataagctt acctgattgg tgggggcttg agaattcaga ccattgccct ctagcgcatt      780
20 gccctctagc caaagggtgt gttgttgaag gttgtcccgt gttttaagaa ttgaagtaga      840
tgcaacgttg tcctgaaagg ggtaactgtt gatggcttcg gtaaccttat atctgtgtaa      900
aaccctccaa gttaagggac tcaacaatg taaagcacta gatttgggtt catgttcttc      960
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25

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<210> 231
<211> 1002
<212> DNA
<213> Arabidopsis thaliana

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30

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<220>
<221> misc_feature
<222> (1)...(1002)
<223> n = A,T,C or G

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35

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<400> 231
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tttcgcccc ccaataatat caccaccgaa cagatccaaa agtatcttga tgagaacaag      180
aagctgataa tggcgatctt ggaaaatcag aacctcggtg aacttgaga atgtgctcag      240
40 tatcaagctc ttctccagaa gaatttgatg tatctcgctg caattgcgga tgctcaacct      300
cagccaccag cagctacact aacatcagga gccatgactc cccaagcaat ggctcctaata      360
ccgtcatcaa tgcagccacc accaagctac ttcatgcagc aacatcaagc tgtgggaatg      420
gctcaacaaa tacctccttg gattttccct cctagagggt cattgcaatt tnntngcccg      480
catcagtttc tggatccgca gcaacagtta catcaacaag ctatgcannn ncacatgggg      540
45 attagaccaa tgggtttgaa taataacaac ggactgcaac atcaaatgca ccaccatgaa      600
actgctcttn nngcaacaaa tgcgggtcct aacgatgcta gtggaggagg taaaccggat      660
gggaccaata tgagccagag tggagctgat gggcaagggt gctcagccgc tagacatggc      720
ggtggtgatg caaaaactga aggaaaatga aatagaggaa gaataagtga tgcttcttgt      780
tgatatcaat taggttctac ctttcatttt tactttcttc acgatgatat aaaaaaaagg      840
50 ttttgcatt ttatgagtta gtctctgtta aaagggttct gagacagttg agtttcagtt      900
cctagatgga tgtggaatgg ttcacattca catgtacaat gttaaagtgt gttgtatggt      960
attagtgtca ccggttcaat ttggtgtaaa aaaaaaaaaa aa                                1002

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55

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<210> 232
<211> 1002
<212> DNA

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5 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

<222> (1)...(1002)

10 <223> n = A,T,C or G

<400> 232

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agaaagcaca	ataagtcaat	aacagaggat	aatctaaacc	taaactaaca	aaggtcaggg	120
15 caaaaaatgt	catttattca	taatgaaaac	tctctcctac	tctgtaacct	agatctttca	180
ctcaattttct	cttaatctcc	tgtacaggta	gcactatcct	attacattaa	tcccaagcta	240
ggagtctgggt	tcacccgttc	ttgttgcttc	atccttcacc	atgggtccgg	taatgtcctt	300
ctcaagcatt	gccttttgc	gccccacgg	cgcttcgacg	tttctttcag	ctcattcttc	360
tgcatttcca	ccatttcagc	ctgttttttc	tgcagttctt	gattcgtttt	cttgagcttt	420
20 tcaatttcgg	cttccagttc	caatgtataa	gcctgctttc	gagctcttga	tctagcagct	480
gattccccgat	tcttgatcat	tctcctttgc	ctcctctcga	taaccttctc	tagacctgta	540
ttgcttcttc	gtcctcgatt	aagcacatac	ggaactgggtg	ataaagaatt	atcttctgcg	600
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ccattattat	tgttgataga	attatttgca	gccccagcaa	aaccttgg	ggttatattc	720
25 acaggcgcag	aaaatgctac	gtttgcttgt	ttaggaaaaa	tggtttgagg	cagccgctgc	780
tgtggatgag	gctgattcag	ctgctgcac	tgtctgtgtt	gctgctgaag	caactgctgt	840
tgttggtgtt	gctgctgcat	tgttccaccc	atcttgagcc	ctaaaccagg	tggctgattc	900
aagatcatag	aatcattagt	accatnnnn	nnntgctgt	tttgatttgg	ctgaccaaat	960
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30

<210> 233

<211> 1001

<212> DNA

<213> Arabidopsis thaliana

35

<220>

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<222> (1)...(1001)

<223> n = A,T,C or G

40

<400> 233

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gctcctacaa	gcaatcaaaa	accgatcga	gatccgataa	caacaagacg	agaaattcga	180
45 aaacccatt	gctatacttc	gttccaacac	gagaattgat	ctcagatata	taccgattag	240
caacaatcgg	gagagatcta	ggtatggata	tgtacccaac	accatcactc	tctcacatca	300
tcttctcatt	cccatcgcca	gaatcaaaa	cgccgtcacc	tttctcttct	tcacgcac	360
cttcgacatg	gtcgtcttct	gcttcgctat	cgctcgtctc	ctcgtgggtc	cttcctaacg	420
acgcgcgaat	gctctccttc	cgtctctctc	ctgcctcact	gctctctcat	ctccgatcct	480
50 tgcgtccct	ctccaacgg	ctcttcaaac	tgcgtctctc	cgcaaccacc	gtagaaacat	540
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aaatcgccaa	caagcgaatc	ggatcgatgg	agagtttttc	gaatgcattg	gcttcaaaag	660
gatggacaat	ttacaaaacg	aaagagaatc	cgacgcggga	atctactacc	aacggagtga	720
gctcagtgtg	tctgttttag	aaagtgtata	ctggctcgat	catgaccgga	gaaggaaacg	780
55 ggtcgtgtag	agtaagagag	ctgagacttc	ctcaattgga	tttcaggaac	gcacctctac	840
ggattctgca	atatttgatg	ttgatgactg	acgatataat	tttcttgctg	taaatttgaa	900

5 acttttttttt tttgtttgtn ntaatctgtt tttgatttgt ttctttaatg taatcatctg 960  
atttacaaaag attggatctc tttggcctgt aaaaaaaaaa a 1001

<210> 234  
<211> 1001

10 <212> DNA  
<213> Arabidopsis thaliana

<220>  
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15 <222> (1)...(1001)  
<223> n = A,T,C or G

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gccgcggtaa cgactcctga agaagatatg cctttgcttc ccgatgactc ggagacttgc 180  
gttgacggat tagggaaatc tctgaggcag agagggattg agctcactag accgaacgag 240  
acttgcgacg tctgtttactg ttactgtgga atcagattgc atccgttgag ctgttccgag 300  
gcttttagag tgaatgatga agggagactc gttggagacg agagagttga tagattagag 360  
25 actgattggt tgagtggaaag ccacaacaat gctgatggat tctcacctct tcttgnnngc 420  
aacnnnnnct tgaacantct ctataagcta aatccgaaga aaacttcagg gacaagaaac 480  
ccatcaaagg aagaccnaaa cagaacagca aagatgcaca acaaagactg tgcctctcatg 540  
ggtctcactt ggcttctcgc taagaaccgt actgcttatt tccccactgt cacttctgtc 600  
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30 ggcatgcctt tagccgtcga ttcttccgaa ttctccaacg gctcgccaac ttcacttcag 720  
tatccgcacc acttgggtcca cttcttactt tacagcggtta tcacattagt cctaataagg 780  
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gtggttgggt gagagaagtg aaattcagat agagagaaaag agagagggct ttggttctgt 900  
ctttgtaaat tagttttttg gtgtcgttgt tgttttagta gccatgttct ttaacatttt 960  
35 attacatcaa aaaaatcttg ttgtattttg tcaaaaaaaaa a 1001

<210> 235  
<211> 999  
<212> DNA

40 <213> Arabidopsis thaliana

<220>  
<221> misc\_feature  
<222> (1)...(999)  
45 <223> n = A,T,C or G

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50 atcattactt gcatttattc tgcactaacg gtactaatcg aattggttct gtttctttac 180  
ttccacacca tttgttttct ttaacaattt tatacattac atatccataa atggaaaaca 240  
aaaaaatatc ttcacttcac atgcctccaa tgaatcctct ctcatctct tagcataact 300  
aattcaatca ttgtcatcta caaagtcaca cagagagaat tgtaaatacg taaagccaca 360  
attataaaca taagtgtaaa gagcaaaacc ggtggtataa accggacaat agatttgctt 420  
55 cacaaacccc aacaaaacaa aattaggtca ctgagatttg actgttacct ttaaggaatt 480  
tcaatctcat catogaagcc tatccacaat aaaaccaatc gtcgaatcaa atcttaatta 540

5 gattgctgta acgatcaata aatctagaac taatcacatc aacaatctct aacatttttaa 600  
aacctagatc ttaaattcaa gagtcctcat actcctacat ctacaaatcc taaaatttcg 660  
aaacaaaggc aacatcactt ggcttttaaaa tcaagaccaa agcaaagatt caacatttgg 720  
gcaaacaaaa ggagactaaa gaacattcaa atataaaaaag ggataaaaaat cagatatata 780  
atattctaaa acaaacaatt tcagattcaa agatataaaa aacctttttc taggttatat 840  
10 caaaaaataaa aagcataaga aaacgaatat aaagaaggag aagcgtagaa atcttccaga 900  
tctgatagga tttacgagtt tttttacacc tcgaggatcc gattcagttg atgcaaggcg 960  
ggatccaatc cctgctcaca aaccaataaa ggtttataaa 999

<210> 236

15 <211> 999

<212> DNA

<213> Arabidopsis thaliana

<400> 236

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gaagctttga cagatctacc aaacttaaga aaggccacga acttttccag tttcagtgtc 180  
aatatcaatc tcgtagaaac aaggctctgt aggaagtcca ggcattgtac tcattgtacc 240  
aaccagtgga tatatgaaac cagctccaat gcttcctctt acatccctaa ttggcaatac 300  
25 aaacctgaa ggtgctcctt tctttgatgc atcatgtgag aatgagtact gtgttttcga 360  
catgcatatg ggaagattcg agaagccttg ttgtgtgtac atctcaatct gtttctctgc 420  
ctggtctgaa tattcaacac cactggtctc atatgactta gctattgect caattttgtc 480  
tttgatacca atgtccaatg ggtagagaaa cctgaggggc tgtgtaatgt tttgacaagc 540  
tttttcaacc gcgataccaa gatccaccgc tcctttacca ctatgagcat ggtgggagca 600  
30 gaccacagca tcaaaagcac cggcatccat tgaaaatttc ctaactgcat ttagtctctg 660  
ttcggtatct gttgcgaaca tattcacagc aacaattaca ttcacaccgt aggcctttgt 720  
gtttgagatg tgctttgcca gattcacaca gccagcttca actaaggaaa cattctcgct 780  
tacataagca cgatcaagag gtctcccggc aacaacatca ggcccacctc catgcatttt 840  
caaagcccta acagtcgcca caacaattgc aactgaggc gttagccac tgtaacggca 900  
35 cttaatatct atgaacttct ctgttccaat atcagaacca aaaccgcctt cagttaccac 960  
aaatccacca ggtcccacca gtttcaaagc gattttatc 999

<210> 237

<211> 999

40 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

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<223> n = A,T,C or G

<400> 237

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tcatattgtg cccccagcca aaaaaaaaaa actactcata tactattagt tataaaatga 120  
gatgaaatgt gttttttttc tttcttttta atagttcaca agcaacacat gcattctatga 180  
gaagatcaat atacaaatta caactttttt ttgtataatc tcgtctcttt caattttaa 240  
tgtgaaatct ttctttaaca agcagagcca gcttctacca gcttgcttaa tttgttggtc 300  
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55 ggaatcaaag gagacaaact ctccactagc ttgagagctt cttcttctgt gttgacgatt 420  
tggttgaaag agaagtatcg accgcaagct gaaacatcct cgaatgctct aatatgaacg 480

5 tccgctagaa acttaacgct tacataagct aacacacccat tctcatacat ttgtgcagct 540  
cctttaaggt atgacatggt gggcctagcg ttgtgtttgtg cgacagatgg tccgacgaca 600  
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tcaactccaac acttctcatc aacatccttt tgagttccaa tgttgtctct ccaaattgaa 780  
10 gctgttaatg aagaagaaaa cacaatcttc tctatactct ctgttcttcc acacgcttcc 840  
accacattga tcgtctctct cacttccaaa tccacctcct tctcccttca gggctgtcta 900  
agcaacagaa gacaacgtta catgtcttga gagagacaag tatgctttga taatccaaca 960  
catctacatc gtacaccact aatctctccg gacgcgtgg 999

15 <210> 238  
<211> 998  
<212> DNA  
<213> Arabidopsis thaliana

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ttcgtgagat taactttcct tctatggaag tttctgaaca gccttctgag agttcttctc 180  
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25 agaagcctgt tgggtgttagg caaaggaaat gggggaaatg ggctgctgag attagagatc 300  
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cttatgatgc taagaagctt gagtttgatg ctattgttgc tggaaatgtg tccactacta 420  
aacgtgatgt ttcttctatc gagactagcc aatgctctcg ttcttcacct gttgttctcg 480  
ttgagcaaga tgacacttct gcatcagctc tcaactgtgt caacaaccct gatgacgtct 540  
30 cgaccgttgc tccaactgct ccaactccaa atgttctctg tgggtggaaac aaggaaacgt 600  
tgttcgattt cgactttact aatctacaga tccctgattt tgggttcttg gcagaggagc 660  
aacaagacct agacttcgat tgtttcctcg cggatgatca gtttgatgat ttcggcttgc 720  
ttgatgacat tcaaggattc gaagataacg gtccaagtgc gttaccagat ttcgactttg 780  
cggatgttga agatcttcag ctagctgact ctagtttcgg tttccttgat caacttgctc 840  
35 ctatcaacat ctcttgccca ttaaaaagtt ttgcagcttc ataggatctt gcttagtaat 900  
gttaagtgtg aagagtgttt tgttttttcg tttatgcttt agtaatttaa gacatacaaa 960  
agtgtgtgtt ccggattgta gtaagatctt aagacata 998

<210> 239  
40 <211> 997  
<212> DNA  
<213> Arabidopsis thaliana

<400> 239  
45 ccgccctttt tttttttttt tttgaaaaat cgactaattt cctagaaaaga ggaccaacat 60  
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atacataagt cgaaagacca tgtcagaatc gggcacatcc gggtcttatt ccgcttcatc 180  
agtgagattt ctggatacca atgaggcggg cataatccac ccataataag gaaccaaga 240  
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50 gcattggctc caggagacgt tgttcaatca caccagccac tatttggtac cttaggttgc 360  
tagaaactgc catgtagaca ccatatgcaa cacttgtgga gactatcgga acagtttcca 420  
cttcaccttc agaattctgg tccacagctt ttcgtgcttt tatgaatgca tttgtaatag 480  
cagtaccaac cagcgatgat gtggtgccaa cggcaaacag cttagctcca ttgcgcgtta 540  
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55 tgtctgggca gttgtggaaa aacttgata tacctccagc agtaagtgcg agaggtggtc 660  
gaagagaaac ggtaggagca ggaagataaa ccaacatgaa atcagcaata atagccatcg 720

5 ccacatcggc aaagacaact tcaagttcat tgaagaagtt ttctctacgc cgttcatact 780  
cagcagcagt cttgggtgaag attccaacac cacattccat ggcgagttta gccatgaaga 840  
gatcatcagc caacaatctt tccctaaacc caccaaaactg catcagccac cgcacacag 900  
ccgatttctg aagctccagg aaccgagtga taaccgatcc aggaatccga cccgcctcaa 960  
tagcagccgc tagatctttg ggaagactcc ggacgcg 997

10 <210> 240  
<211> 997  
<212> DNA  
<213> Arabidopsis thaliana

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attcaattgg gtaacgagtt ggtggagaga aggattgatt tggatcacgg aggtggtagc 180  
20 gtggggctta tgggtctcgt ctctcaagct gttcatcatg gtggtcgcca tgttctaggg 240  
gtcattccaa aaaccttgat gccaaagagag ataaccgggtg agaccatcgg agaagttaaa 300  
gccgtggccg atatgcatca aaggaaagct gaaatggctc gccaaagccga cgcattcatt 360  
gcccttcctg gtgggtatgg tacgttagaa gaattgctgg aagtcattac atgggctcaa 420  
ctcggtatcc accgtaagcc ggtgggtctt cttaacgtgg atggttacta caactcgtg 480  
25 ttaacgttta ttgataaggc tgtggacgaa ggatttataat cccaatggc tcgtcgaatc 540  
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tttgatgaga taacatcaaa attggtttgg gatgaagtgg accggataag ttatgtaccg 660  
ggttcggagg tagctaccgc tacgtaagga tgtattatgg ggagtttatt ttttggtaaa 720  
agcagtgtac agcggaaatt aagttgttta acatcagaag gtaagggcgg aaagaagaca 780  
30 aaagaaagta ttggggctgt tttgataaac attattttgt aggggtggtt taaatgtgtg 840  
aagtggataa accatgtggg taactgctaa ccgcgtatat accaaaccct atcactcccc 900  
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35 <210> 241  
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40 <400> 241  
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55 gggataaggt tcacagcgag tttcctaagg tcagagttaa gctgaccagg gaaacgaaga 900

5 cagcaagtaa caccactcat tgtagcagag atgagatggt taagatcacc aaaggtagga 960  
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<210> 242

<211> 995

10 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

15 <222> (1)...(995)

<223> n = A,T,C or G

<400> 242

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	tatgtatatc	tatatgatcg	cacaagggca	aaacgaacat	aaccaatacg	acaaaactaa	180
	gtggaaatgt	ggagacccaa	cacttaaagt	gtgtgnggaa	gaaacaaaat	agatgtatgc	240
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25	ctatcgcttc	tttcaatcca	ctccagaaga	caagagaggt	gaaattcgtg	ctcacacttt	420
	gtcgttagtc	ttggattctc	aacatcataa	tcttcaaagc	aaataggaca	acattcctcc	480
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	agaatgactg	agcngmntag	agttttacag	tctgattccc	caagatcttc	acatgtcgtc	600
	agcgtttcaa	aactgcttcc	actcatcctt	cctttgatgg	actcagaatc	tgtgcattgt	660
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	gatgtctcca	aacctatadc	aaccaagagg	cctgtggtga	atgctgatcc	cacaccagca	780
	cgggttcctg	aagggacaag	ctcttcaaaa	gattctggac	aataatagta	aacagggtgt	840
	ccaacaagat	gtgacttcct	cgaagaacta	cagcaacctc	ccattttcac	cagctatagt	900
	aataattaag	caagagtagc	gaacaacagt	ccttgaagca	ttttactgat	gcattgccac	960
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<210> 243

<211> 995

<212> DNA

40 <213> Arabidopsis thaliana

<400> 243

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	tggatgagag	atagatccat	ctatttagtt	taccaacctg	gattcataat	gcatcaaagg	240
	agctcaagaa	ctagagcaga	agcacctcct	cctccgttgc	acactcctcc	cacaccgtac	300
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	cctagagggg	gtccctaagg	gacagctcct	ccattttacgt	tcactttctc	tggagcaatc	420
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	gcagtagtga	aaaactctgg	ttcctgagct	gcgtcaccat	accctttaat	ttttgctaata	600
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10 <211> 995

<212> DNA

<213> Arabidopsis thaliana

<400> 244

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 aacatcaaac acaacaacaa caacaataac aacgaggact gcatatttac actgatctgg 240  
 aagctttttca gattcagcag cacaagacca gacgacacaa cagggaactc ttttctttcc 300  
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<210> 245

<211> 994

35 <212> DNA

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<221> misc\_feature

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<400> 245

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 atatacttgt tgggtcccttc actgggactg gtcctgggtg tcagagacgg cctcatagtg 180  
 actatagtgt tttcgtctgc tcctgcttcc agtgcagcca tccctgcttc cagaaacttc 240  
 tgaacagcgt cttctgcgta tttgttgect tcaactactg tcatgttctt cccaatgtct 300  
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10 <210> 246  
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cggagtctgc cttctttgag aactgccgaa gccgaggctg ctgagtggaa tgagtggag 240  
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gtggcttcgt ttgttccaaa cttcttgact ggtcttttca ctggagctgg ccttattgga 420  
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cgtttctcga tttcctacac gatttcttac atgatttttg gatcttgggc catcaagcta 540  
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gaaatgaata tgaatgaatt tggagtaaag gtgacgcatt caggatgggt gggcttccct 660  
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30 tcattgttgg aataagtttt ctttaccaa ctctaaaccc aaatgttcca ctattgaaac 900  
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tcacaaatta aactcacttt ccggggacga agttggtagc gaaggcccat gcattgttgt 180  
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45 ccttcaactc cgcgaaagcc tcgggggtcag tagcgaggcc caatgggtcg aagctcccac 360  
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 <210> 248  
 <211> 994  
 <212> DNA  
 <213> Arabidopsis thaliana

10  
 <220>  
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 <223> n = A,T,C or G

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 20 tccatagaca tcatattgac atgggtcacgt gggattcatc gattatgagt ttactcatc 240  
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5    tttaatctga accaaataaa gaggtttgtt cacttgtgaa tcagtattga gtggaaatgt    960  
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<211> 992

10    <212> DNA

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<223> n = A,T,C or G

<400> 250

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	gagtgaagac	ttgtttgttg	aacaaagcct	tcattccatat	cgctttttct	ttgacgctgg	180
	tttggtttgg	tgccaaattc	taaaacgcca	tccgcccagc	aagcctactc	tctgagattc	240
	gtctgtctat	cgctgcattt	atcgagttca	tctggctggg	ttcatcgtgc	actttgtatt	300
	ttggtaagga	cattcttctt	tcctccatag	acatcgcttc	atcatcccat	acaagataga	360
25	cctcattagg	ctgattgcta	ggagctttgt	ttgcaattac	aggaggtgga	ccaattgaag	420
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	cagggtacttg	ttgaggcgga	tataccattc	catatggtct	aggaactaca	ccaccaagag	960
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45    <223> n = A,T,C or G

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	acagaagagc	tacaagcttt	gagagggacg	tcgagagggt	tatcagcaag	aagctgagag	540

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<210> 252

15 <211> 991

<212> DNA

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<223> n = A,T,C or G

<400> 252

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 40 ttttgtcttc gatacgggct tcacagtccc aaccagtttg aatgttaaac agaaataaag 960  
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<210> 253

<211> 991

45 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

50 <222> (1)...(991)

<223> n = A,T,C or G

<400> 253

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 55 tagccgacgt agcatggacc gcggtggaaa cttaccatca ccaccaccac caccaagacg 120  
 aaaatcacga gtcaacgaat ccaatttctg atccacgaga tcgtgaatta gaagctcttc 180

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5  gtcaagagaa tcgtcgtctc aggactttgc ttgaatcgaa tcttaaactc tttgagactc 240
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   cgatggttac ttcaagagat ttcttggcta gattagagaa tctaagacaa gctttatcta 360
   atggaactca gaatcaatth ccattcaagg aaccaacaga agatgatgtg aagactgttg 420
   aagttcttat agagatggat catcaagagc caagttagtg ggtttttagtt actgatgata 480
10  tggttcctag taatgtcgag gaacaaagcg cgatcgataa cgaacattac attgttgtga 540
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   ccaaagctaa gaatctcaaa cctgaagagc ttcagaaact tttggtgcaa gaagttactg 660
   ctctgagcaa ggtaggggaag gtagtggata tatggcatgc tgggaaaatg ttctacacac 720
   tgtccacttg gggacttgca tttggagggt tataccaagc tcgtggtgtg ctgaagatag 780
15  ctgctaaggg tgttcatgag accagcaagg ttgttcttag ggctctttga aagttataag 840
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   ttctgtgcga gactctgttt tnnnnntaat agcattgcgt gtgtaaatag tgtaaatagg 960
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20  <210> 254
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25  <220>
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   gtagctgcgg ccaagggtga gaagatcacg gcggannntc aggcagcctc gtcacgcgac 180
   agcaaactct ttgatcccgt cgaacgaatt aagganggct tcgtcacctt caagaaggag 240
35  aaatacgaga ccaatcctgc tttgtatggt gagctcgcca aagggtcaaag cccaaagtac 300
   atgggtgtttg cttgttcgga ctcacgagtg tgcccatcac acgtactaga cttccatcct 360
   ggagatgcct tcgtggttcg taatatcgcc aatatgggtc ctccttttga caagggtcaaa 420
   tatgcaggag ttggagccgc cattgaatac gctgtcttgc accttaaggt ggaaaacatt 480
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40  ggaaacaact ctactgactt catagaggat tgggtcaaaa tctgtttacc agcaaagtca 600
   aaagtttttg cagaaagtga aagttcagca tttgaagacc aatgtggccg atgcgaaagg 660
   gaggcagtga atgtgtcact agcaaacta ttgacataac catttggtgag agaaggagtt 720
   gtgaaaggaa cacttgcttt gaagggaggc tactatgact ttgttaaatg ctcctttgag 780
   ctttgggagc tccagtttgg aatttcccc gttcattcta tatgaactaa cacatcacca 840
45  tcaccatcgc taccaccacc atcacaaaca tcatcatcgt cgatcatcgc atgatcagca 900
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   tgcatgagc ttcttttctt tcattaaaaa a 991

   <210> 255
   <211> 991
   <212> DNA
   <213> Arabidopsis thaliana

   <400> 255
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5    ttggcatcaa gccatccac gttcaagact gttgctctct tctctaagaa aaagccagct 180  
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      gacaggagaa ttttcttgcc tgatggctct ttggatagat cagagatccc agagtactta 300  
      aacgggtgaag ttgctggaga ttatggttat gacccatttg gtcttggaag gaagcctgag 360  
      aactttgcta aataccaagc ttttgaattg atccatgcga gatgggctat gttaggagca 420  
 10    gctgggtttca tcattcctga agctttaaac aaatatggcg ctaactgtgg ccctgaagct 480  
      gtctgggtta agactgggtg tttgcttctt gatggaaaca cattgaacta ctttggcaag 540  
      aacatcccta tcaaccttgt tctcgccgta gttgctgagg ttgttctcct cgggtggagcc 600  
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      tttgatcctc taggccttgc taaggacct gagcaaggag ctcttctcaa agtcaaagag 720  
 15    atcaagaacg ggagattagc catgtttgcy atgctcggtt tctttatcca agcgtatggt 780  
      accggagaag gtctgttga gaaccttgca aagcatctca gtgatccttt tggaaacaac 840  
      ttgcttaccg tcatcgctgg aactgccgag agagctccca ctctctaagc catttctact 900  
      ttttttaaga gcttccaaaa tgtacacttt gttcgattgg aactcctttt gacaatgtta 960  
      aaaaaacttc catctgaaaa aaaaaaaaaa a 991

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      <211> 990  
      <212> DNA  
      <213> Arabidopsis thaliana

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      gttctattca tcagaatcgg ataactcgag gggacaagag ccatcatcaa cattagcata 180  
 30    tgggttgaaa tgttctgaat ttgtatccat gcatccagga actagatcca agttgcatct 240  
      atctcctcct tcgaccgtca agttggcgat catcgtgcaa cgagttggaa caacggtcga 300  
      gtcaggaaat attgctcttt cgcaggctcc atcttggtc aactcgttcg ctagaccctc 360  
      attgaagaac tcaatagggt tgttttgcca tcgcttgggg acttgaaact gaagtctgta 420  
      tggaccgtcc caatcgacac cattagtga tgagaatata aaattcacag catgcttagg 480  
 35    aatgcaaatc tgcatagtgt atatcggaga atcggctttg cctcgatctt tcttaagcat 540  
      tgctcttggc tccccaccac acatgattgg ttggttaaat cctcgttga aagcaacccc 600  
      atagtcttcg ttaagagtga gtttgcttgc agctggatta tagaaaagtt tcaacttttc 660  
      acctgagggt ggtggaagac cattcatggt tttccagtac acaggagcag taccatctc 720  
      gaacatggcc catgaaggaa gcttgtatct atcaaaataa tcaatcatga actatgttta 780  
 40    ttatttatatt catatagtta tatcgaccaa agcaacacga tgaactaaaa taaagacaga 840  
      ctctttgatc tcttcgagag gtgcaagagt cgtggcaaca gctttaactt ggagatcaag 900  
      tttcttcctc ggaaatctcc ttagtattgg accaatcctt gaactgtaca aaaaactacg 960  
      tttcgaggat aaaggctgcy acggagaggc 990

45    <210> 257  
      <211> 990  
      <212> DNA  
      <213> Arabidopsis thaliana

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      ttgtttacac ttccagaaac agagtccagt acgtttgata caatggaaga ttaagatttc 120  
      aacgggtgat acataaagta aactgtaatc caaccgtaat tatttttgat tctagaaaaa 180  
      aagagattat taaaaagggg agataaaaaa gagagattcg aagttttgtt ttctttcact 240  
 55    gactcactta accgggtgtt tgcaatcctg cagcaatacc cttcatggtt aagataagtg 300  
      tgtcctcaag tccaggcgcy tattcactcg tggggttaag cttgacgagc tcttgtgctg 360

5 atttgcttga ttgcatgata tcttttagaaa tgtgtggctg cagagtcaca ttgtagtttg 420  
 catcacggat cctcttcaat gtgtaggctt ggcaaacgtt gagggtcgta atgtaagagt 480  
 cacgtagcct tagtctctgt ttcaagtaag gatctccttc aagaaggctt ttatgtccag 540  
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 ccataaaatc ttctgagaca agaagtttgt cgtacaaaagc agcgatcccg gggctctccct 660  
 10 tggcgaacac catttcaatt agatcgatgg tgactcggaa aaagggccat tgtttataca 720  
 tatcttgcag catgtgaagg tttctcacat ccttcttgat cgcataccta aatgctgctc 780  
 cgaaacctaa ccatacagga agatggaatc ttgtttgctt ccaagcaaag atccatggga 840  
 ttgcacggag agattcgatc ccaccgcttg gttttcgtt tgaaggctta cttccaatat 900  
 tcatacgtcc atactccagc tccggagtag cgaggcggaa atactcgacg aatcgagggt 960  
 15 cttggaanaac gacagatcgc ggacgcgtgg 990

<210> 258

<211> 989

<212> DNA

20 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

<222> (1)...(989)

25 <223> n = A,T,C or G

<400> 258

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 30 gcactaagggt gacaaaacga gatataatac ttactccctt tcagcttcca tgggcacacc 180  
 acactctgca agttttgatg attgggtggg ttgattcagg aggaagtaca ttgtcgtcgc 240  
 tgggttggtt ctcaggggat ctctctctct gtaagtcgca ctgggttggt ttgtagatac 300  
 acaatctctc tgtctgctac atttatgaga tgcctgctct atccttcttc atctgacaca 360  
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 35 ctaacagctg taagctgaat gctttctggc agaagacaat tacagaagga acctactcgg 480  
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 gtgaaatggg tacagttctt ggcaatcaaa tggtaagtgt caccatggta ctttcttgaa 600  
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 gaccgtctaa agatgaaccc tggacagttc ctaggttcca cctcatatac cccacttggt 720  
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 taaaccggcg taagcgcggc ttctccactg ctctcatccc tctcatcact tgaacatgag 900  
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<210> 259

<211> 989

<212> DNA

<213> Arabidopsis thaliana

50

<400> 259

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 ggaggcaact ggaaatgtaa cggaactgct gaggaggtga agaagattgt gaacactctt 180  
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5 tgggttaaga aaggaggtgc tttcactggt gaagtgagtg cggagatgct tgtgaacttg 360  
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 gttggtgaga ctcttgagga gcgggaagct ggatcgacca tggatgttgt ggctgcccag 540  
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 gcagaggtga agaaaagtgc ctaatgagct cattaagcaa tttaaaagtc ctttgctttt 900  
 15 ccagtcgcaa ctctgaaaaa atgaataagt tgggtattatg atatgatata ttttgcttca 960  
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<210> 260

<211> 988

20 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

25 <222> (1)...(988)

<223> n = A,T,C or G

<400> 260

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 gtccaacttg tagagttgca gtgtgtggtt ggcgacctct tgcccaaagg tccaaccaa 300  
 aacacctcct cctaagaagg acaatgcagc accatgtgga ctccnggagt atttcaggc 360  
 35 aaaagcagca gttagagacag ctccaantnn ngctccggtg acaccaaacy tcacagcttc 420  
 cctagccggtt ttcagcnnna tannatgacc acaaatacac nntgagtacc aaacgtaaga 480  
 tcttcagtaa gaataccaaa taccaaacca acagttcagt ttttgctagg ttttttatgc 540  
 catccgacga cgatgcagtg ggcttagtcc tcttgtatct gtgcttccaa ggactaaagc 600  
 cagaaaaacc tagcctagtg gaactttatt atatcaaaaa gtaacagaaa ctttccaatg 660  
 40 gaaaatcaaa tgaagaagaa aaaaataaac cgatgacagc agagtaaaat cgagtaccag 720  
 ccgagtcata gataatggac caacaatatc tatagattcc aaaacacaga gcgagagaaa 780  
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<211> 987

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50 <213> Arabidopsis thaliana

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55 <223> n = A,T,C or G

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   tttcttagcc atagcatcgg attggatcct tgcaaccttt ctcagctgat tgtcttaaac      240
10  ccatgcgacc cccttttgcc aggtattgct ggtggaatt ttctgctctg tagaatttcg      300
   tagcgggaag tatctctgtg acaatcctct tgttcaatat cttctgctgt ttctcaacag      360
   cttcacgagc tatgcgctct tgctcgtctg tgtagtagta tatacctgat cgatactgcg      420
   ttcccacatc cccaccctga cgattcaagg tggttggatc atgacgattc cagaaaacat      480
   caagcaagct ctcaaagcta cactctttgg gatcactg aactctnnnn acctcgttat      540
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   acccaacctc ggtcttggtc acaccaggaa ctctctggta agctagctcc actcccaga      660
   aacaaccggc gccaaattgc gcgaattgct gacctgaaga cggaacatca tcgtcgggtc      720
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25  <211> 986
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   ggtaggggag atttgagtag tagtagattg ttagatttgt aattcagcta ttggtgaaga      180
   ggaagggaga gagagatgtg ttgaattggg tgagtttggg ggaggaaaga agaagaagaa      240
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   tctactagtg attttccttc cgttaccgcc ttctgctacc tagttgcagc tactggtctg      480
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45  ctgacttttg cagcagcttg tgcacggcca ggcataacgg ttctaataga caacgatctg      660
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   cacgatactg ctcagcaaga tgtgttttca tgggtgtgtt ttccggtgtat agtgactgat      840
   ttttcttctt ctttcttggt ttgggttggg aaccaacttt cttcaaacc aatacttga      900
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   <210> 263
   <211> 986
55  <212> DNA
   <213> Arabidopsis thaliana

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<220>  
 <221> misc\_feature  
 <222> (1)...(986)  
 <223> n = A,T,C or G

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 aaaaaagggt tacgttttct aaataatttc ttagacgaat aagaaaaaaa aaaaaaaagg 180  
 15 aataagtggg gattatttct gaagagggtc gggttagtat tcagaggact cggagctgag 240  
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 ccagtagata cttgtcgtcc cgagttttat acaactgaat ttcaaacttg acaacattgg 360  
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 ccgtcattat ttcacgggga tgagcccgag actgaagtcc aagagcccat tttctctcaa 600  
 cagggtattg agatctcaag ccaactcctt gatattccat cagtcctgga agccgatggc 660  
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 25 acgtcacagt gccatcattc tgggttcggg tgcggagcga ttcgatgagg tgggttctgt 840  
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<210> 264  
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 gaccccaaat cgacgccgtt tcagccatac agtgaagtct tcgggctaca gagattcaga 420  
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 45 tcttacttag ggcagccatt gccgttctct atctcgacat tgatatggat cgaagtgtta 600  
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 50 ccacttcaca ccaccattat cgataccttc tcttcctctt gatgtggtgg ctcttagctt 900  
 ctataggtgt catgtaatga tgtactgtcg ttattttaaa gaaaatttgg caccttttgt 960  
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<210> 265  
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 <212> DNA

5 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

<222> (1)...(985)

10 <223> n = A,T,C or G

<400> 265

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15 taaccatagg atcaaagatg gagggagaaa ccgcagccaa agcagcggca agttcctcct      180
catccccgag ccggtacgag tctcaaaaga ggcgagactg gaacactttc cttcagtatc      240
taaggaacca caagccacct ctgaatctgt ctcggttagg tggcgcacac gtccttgagt      300
tccttaagta cctcgaccag tttggtaaga ccaaagtcca tgccacggct tgtcccttct      360
tcggacaacc taaccacccg tctcagtgca cttgccctct caagcaagct tggggaagtc      420
20 tcgatgctct catcggcctg ctaagggctg ctttcgagga aatcggcggg ggtcttcctg      480
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angctaaggc tcgaggnatt ncttacgaca agaagaaaag aaaacgtccg catacagaca      600
cggcaactcc aatcgccggg gacggagacg atgccgaagg aagtgggtgg gctgctttgg      660
tcgttacggc tgcaactacg gtatagtggg gacgatccag ctactagcta gatgctaaaa      720
25 tcttaaaaga attacgatag atcagtacga aagtgtgtaa tggtgatgtg tggacgtgcg      780
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tcttttaaaa gctttaggaa tgatgatcat catcttctta ctttcacttt attttcatgt      900
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30

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<211> 984

<212> DNA

<213> Arabidopsis thaliana

35

<220>

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<223> n = A,T,C or G

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<400> 266

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tggttttcca aaggaacact gatgatcctt cttaggtcga acatcctgta actgagatga      180
45 ttgttgggtc agatcttgtg gaatggcaaa ttcgggttgc caatggggaa cctctccccct      240
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acgttccaaa aggatttctt cctgcaactg ggttcctcaa tcattatcgc cctgttgacg      360
tctcaccatc agttcggggt gaaactggag ttgagcaagg agacactgtt agcatgcact      420
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50 aactgaagga ttgcttgtct aacttttcagg tagcaggtgt acctacgaac ataaatttcc      540
ttcaaaaact tgctagtcat aaggagtttg cagtnggcaa tgtagaaact cattttattg      600
agcaccataa aagtgatcta tttgctgacg aaagcaatcc agctgcaaca gaagtggcat      660
acaaggcagt caagcatagt gcagcattgg tggctgcttg tatctccaca atcgagcatt      720
ctacttgga tgaaagtaat catgggaaag ttccatcgat atggtattcg aatcctcctt      780
55 ttaggggtcca tcatgaagcc aaacaaacca ttgagctaga atggaataat gaatgcgagg      840
gaactggctc taacctcata tcaactcggtg taagatatca accagatgga agctatctca      900
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5 ttgaggaagg caatgattct ccaagtttag aactcagagt aacacgagca ggaaagtgcg 960  
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<210> 267

<211> 983

10 <212> DNA

<213> Arabidopsis thaliana

<400> 267

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	aacatgaaca	tgtcaaagtt	tttctgctca	actaacccaa	aactcacaac	acagaatgat	180
	ctagcaacca	aacaatacat	tgcaagaacc	tgagctctgc	tccttctgat	gcaatctcga	240
	cactgttcct	tgtttaacaa	aaatgggatg	tggcaagctc	tcactcttgt	ttcttcagcg	300
	cagggtcagt	atgtgtgact	cctgatgtca	atttcttaac	actgtcttta	gcctctgcaa	360
20	caaacgaagc	gtctggcttg	tgtttatccg	cagggtcttt	cagggccaga	cagatgtaaa	420
	acacaataac	tacattgact	gataccacgg	caagaaatcc	actcagtagt	gtcagagaat	480
	gtggagacaa	cgttggtgac	cctgtcgaga	tttaacagag	caaaacgggc	aatttctaca	540
	gcattttactg	ttagaaacta	aagctgggaa	actacaacag	acaagctacg	tgagcctgag	600
	agagaaagag	agacattatg	ccaaaagtac	agtaaccgac	taacaggcta	tcacatgtgt	660
25	agatgatcaa	acttcattac	atgaactacg	cgtcaaagac	taaactgcct	ttgttacaag	720
	aagtaagggt	acaaccatag	aataacctct	tgtagcattc	cagctccaac	tagtttctat	780
	gatacctaca	aactaagttc	taatcaaaga	agtttgagct	ttctaaaaag	ttacaatcag	840
	aatttctcta	atctgccatc	agatcccaac	aaccagctat	tctactaaac	caagttccac	900
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<211> 982

<212> DNA

35 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

<222> (1)...(982)

40 <223> n = A,T,C or G

<400> 268

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45	aaaatacgaa	agaaaagcca	cccacaatct	taaacaaacg	gtgagaaaca	ctaatacaagt	180
	tcaacagctct	ctccatcaaa	cagactccaa	agttgctcaa	cgtcaaacgc	caaagtggcc	240
	ccatgttcag	ctgtcgtcgc	ttcaggaaca	atcgcatcag	cttcttggtt	ttccccagct	300
	aaattctcca	accacatatt	atctccattc	attagattat	tcacaaaatc	atctttctca	360
	tcacttttgt	tacatgtgat	actattttca	caaacattat	ttttcttgag	tccaaggcat	420
50	gaaggaatta	aatcaacttc	tggcagacca	ttgagatggc	tgcaaccatt	gttaacagag	480
	aaggatcgag	gtcgaggctt	aaaaacaccg	nntttttgga	cgggtgttgt	aggaggggaa	540
	ataatgtttt	tctttttcat	tttagactta	caacacgaag	actcatgttt	tttactcaga	600
	tgggtgttcc	agtaattttt	gacatcatta	gcggtccgac	caggcaatcg	accagcaatc	660
	aaggaccacc	tatttcttag	aagcttatga	aggcgaagaa	gaagatcaac	ttcatcattg	720
55	ctaagtcttc	ctctcttgat	acttggcttc	aaatagttca	accatcttag	tctacaactc	780
	tttctgcata	gatttagccc	agctctcaaa	ggaacttgat	gccatttgcc	ttctccatac	840

5 ttatcaatac atagcctcaa gagactatct tcttcagcag tccatgcacc tttcctcaac 900  
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 actggtggaa tctctttcaa cactacagca cccttgactc acattgatga gaagctctgt 180  
 tatcaaatcc tgcataaata caagattcac aatgctgagg tgctatttcg tgagaatgcc 240  
 acagtggatg actttattga tgtcattgaa ggcaaccgca agtatattaa gtgtgtttat 300  
 25 gtctacaaca aaatagatgt tgttggaatt gatgatgtgg atagactatc ccggcagcca 360  
 aattccattg ttattagctg caatcttaag ctttaacttag acagactact tgctaggatg 420  
 tgggacgaaa tgggccttgt gagagtttac tccaagccgc aaggccagca accagatttc 480  
 gatgagcctt ttgtcctctc atctgatcga ggtggctgca cagtgggaaga cttctgtaac 540  
 cacgtccaca ggactctggt gaaggatatg aagtatgcac tcgtttgggg cacaagcaca 600  
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 tgataagtca tctccatata tccatctcca ccatcatagt cgtggatggt ttcacctgag 840  
 taagatttac tatgttgtat ctgaatccgt tttgttgtnn nctctcacia tataagtttt 900  
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 <223> n = A,T,C or G

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 cgattctcag ctcaatctta tcttttcctt tgttgtgctg cttttcactc tcttctgcgc 180  
 gacgaatttg gccttggttt ttgtttgttt gtcgtatccg acgcggaggt attgagaaac 240  
 cgtggcttaa gacggaggaa gaagatggaa gctaaccgga ttgagaactt gacgaatccg 300  
 aatcaggaaa gagagtttat aaggagacat cataagcatg agcttggtga taatcagtgt 360  
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 agatttgatc agccacagaa gtataagccg tttatcagta gatgtgtggt gaaaggaaac 480

5 atggagattg gtacagtaag agaagttgat gtgaaatctg gactaccagc aactagaagc 540  
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ggtgatcata gacttaagaa ctattcttca atcatctctc ttcaccccga gactatagaa 660  
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10 gatatctctg aacgtcttgc ggttcaagac acgacagaat cgagagtcta aagatcaaag 840  
gagtaagaaa ctattgaatc agagagattt tggttgccat ggatgaagct ctcaaaggga 900  
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atagatgtgt ctctctcttg tagtaaggaa aagaatggat tctaaccaga ggagatgatt 180  
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45 <210> 272  
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50 <400> 272  
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aaagaacctt cataaacact ccaaaagctt cattatctac acctattcat attatcggtt 180  
tagtccatag aaatcttcca aattaaagt ttaataataa aaaaattaca caaaccgatt 240  
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55 gaataagctc cctctggctg gctaacgagc tctgaatggc tgcttgctc cacaatccgc 360  
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5  accacggtgg tccgacctct catgagcctc tctaacgcct cttgcagcac gcattctgat 480
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   cttgagacag tagaaaacgt ctggcacttt tccagcttgt tttgcagctt ggagagctcc 360
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50 <213> Arabidopsis thaliana

<220>

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10 tttgnnnnnt atgcttagtc tctggcattt ggtcaaattt gtcttcttgg ggtctcttag 300  
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25 <211> 976  
<212> DNA  
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<220>  
30 <221> misc\_feature  
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<223> n = A,T,C or G

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45 aagtacttga cggatcacat agaaagtacc aactccaagc aacccagta gtaacagcaa 660  
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5 ctcggtttttg atggatgatc tttattgttt atcatgtttt acctttttta ttatatgtct 960  
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<210> 280

<211> 974

10 <212> DNA

<213> Arabidopsis thaliana

<400> 280

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	caccatctct	tcctctctgg	aaactctccg	gttgactac	catctaggag	acaatcattc	180
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	aagagcaagg	ttgaggatgg	catctttgga	acgtctggtg	ggattgggtt	cacaaaggcg	300
	aatgagctat	tcgttggtcg	tggtgctatg	atcggtttcg	ctgcatcggt	gcttggtgag	360
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	atgtacttaa	atttagtaga	gagtgtgtga	ccttctcttc	atgttgagac	aaaaggaaat	900
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<211> 974

<212> DNA

35 <213> Arabidopsis thaliana

<400> 281

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	aaacacaatc	aacaatcata	tgatcaagtt	ctaaactaag	aaacactcag	acgaaagatg	240
	cggcttttgt	tactcacaag	ctaaaggctt	aacctgaac	ctgtagataa	gcattttctt	300
	ggtcgaagtc	gggttatcaa	cagttagcaa	aatcctgcc	acttctccaa	ctttgaagct	360
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45	atacccttct	ttgttctccg	gcacaaactc	cgctccatac	gaaacctccc	atcccactac	480
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	agttggttta	acagtaattc	cggtagcgat	atcatcgtgt	gtgaaatccg	agttacactc	600
	gcaattatcc	acacttagtc	caccatactg	aaccgggaca	tggtcgggtg	atatgtactt	660
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5 <211> 973  
 <212> DNA  
 <213> Arabidopsis thaliana

<400> 282

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	caagccaagt	acttctccag	cttctctact	tcctctgtgc	ttccaatgta	tagaggaacc	180
	ctctgatgta	tctcagtcgg	ttggatatct	agtactctcg	aatgtccatc	agaacctttc	240
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	tgaaaatctc	caaccaaact	tccaatgtac	cttgcgaggt	aaggcttccc	agttggacca	420
	gggtccttaa	gatcatcaat	gtacttcttt	agtttatcgt	cccacatctg	gtaattccct	480
	tcgttgaaag	agtagattct	cccggttttg	gggatctcaa	tgttttcttg	cgtgaggaca	540
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 30 <212> DNA  
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<400> 283

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	gttgataaga	cttctacttc	ctgacgatat	tgagatcgat	gtgtacatac	gcaagcgann	180
	nacaaatact	aagaagaaag	ccgatacaag	catgaatggt	tccgctagca	tgtatattgg	240
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	gatagtcaac	ttgttaacaa	tagtttcgac	gagcgggcac	ccaaaggtaa	agttcaagta	480
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 30 <211> 971  
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<210> 286  
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 55 <212> DNA  
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<220>  
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<223> n = A,T,C or G

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25 aagaagaaga cactaatccc taagaccctt tttatatcca caatttctct tcattctaaa 840  
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<223> n = A,T,C or G

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<211> 970

10    <212> DNA

<213> Arabidopsis thaliana

<220>

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15    <222> (1)...(970)

<223> n = A,T,C or G

<400> 288

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	cgatgagtga	acagataaca	ttgatttact	atatgaaaat	aagtgatgtg	attttttaac	180
	tccaattaaa	aaaaaaagaa	gtctttttaa	gcctagaaga	attcaaacat	tcgagaagag	240
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25	cgagataacc	tcaagctttg	ctagcaatgt	tggttgaaag	ccaatccaga	ccttcataga	420
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	nnaggccaan	nnnnncagta	atctcagcag	cattcatagc	gtttggaaga	tcctgcttgt	540
	tggaacacac	aagcaatact	gcaccccgaa	gctcatcttc	attcaacatc	ctgtgaagtt	600
	catctctggc	ttcaacaaca	cggctctctgt	cattgctatc	aacaacaaat	atcagacctt	660
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	caagaccaac	cataaggatt	cgcctctctt	tcttggaaca	aagccgggta	aaaagctttg	900
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<211> 970

<212> DNA

40    <213> Arabidopsis thaliana

<220>

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45    <223> n = A,T,C or G

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	aggagttaga	acgatagtgt	caagtcggtt	aaggaggaga	ggactcctca	tggaccagtt	240
	cctgattatc	aaaatatgca	gcacaacaga	aacaatcaaa	ctggtgtgag	aatttcacac	300
	tcagggtccat	tgatgagcaa	ccggaacatg	gctaagtcaa	caatgcatgt	gaaggagaat	360
	gcacttctcta	gataccctcc	agctagagta	aaccggaaga	tggtatcagg	ctcagttctc	420
55	tccaaaacat	tattagaacg	gcaagatcaa	ccagtcacga	accaaagaag	aagagatcgg	480
	cgagcataca	atagagctga	tactatggat	agtagacata	tgacagcacc	aattgaccca	540

5	tcttgggtata atccttagtga tagcaagatt tacatgtcag gaccattggt ggctcagcca	600
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	ncactcnaga caccacaagg ctgaaatcat tggaagagcc aaattattga gcgttctaaa	720
	aagccgaatc agttgagtca gatttgtcac tataatctat tggtttcata aattgagttg	780
	atgtgatcgg cttaaaggca taaaccacta ctgttcgtat agagttcgtc gtgtgtacat	840
10	atatacaaaa tccctttgaa ttcattattc cttctaaaat tgattgttgt tccgttgtaa	900
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15 <211> 969

<212> DNA

<213> Arabidopsis thaliana

<400> 290

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	tgatccaaga gggtaaagat ttggttaatt acgctctcat caatgccgtc gccattcgaa	180
	aaatcctcaa gaaatatgac aagattcatg agtctaggca aggacaagcg ttaaagactc	240
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	ctcctgttca tgcattgttt gatggttgcg ctttgacttt cgacgatggg aagcctttac	420
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	taaaaaaat ctttaatttg atttgctttc ctctgtgagt gtgtttcctt gcacagagag	900
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<210> 291

<211> 968

40 <212> DNA

<213> Arabidopsis thaliana

<400> 291

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	tccagcatca agtctggtga acgtgcgctc ttgcatgttt gctgggaatt tagcatatag	180
	gagagatgga aactcttctt tttcccaatg ttccatctat agcgggaatt ttagatgacg	240
	ctgaagttgt tggatttgat gaaacaaagg aggaacgttt tttctttaag atcatttgct	300
	gattcttggt tccttacctg aacactccac aaccaagctt ttatcccaag ctctttgctt	360
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	tgacacatca actgcagaat caggttctga agctgaagat attgttgtgt ctccaaaagc	180
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	aggagctcat atgcctccaa atgtcccaaa ggatcatgaa agcttcagtg ctctgtctct	420
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	tgcagctgtc tgccgtgtag acgcccttga agctgagctc atagccacta agaaggctct	720
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35 <210> 293  
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	aggatacaac agaaagaaag tactgagaaa ttgggcaatg agaaagccgc ttattttaatc	180
	ttagcattat tactgtgact gaagcaaaac catattttcc ttttagaaat ttctcactga	240
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	agatcagtca aagtgaaggt ttcaccagcc aaataactga actccttgag cctagcctcg	420
	tagacatcaa ggaccttggc taacttagcc tctcttctg caacaacggc ttcgtctgtg	480
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<213> Arabidopsis thaliana

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20 catgtttatg tgtgtgtgac ttgtaaccac atattttgtt cataatcaat cgtttcttat 540  
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30

<210> 295  
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<223> n = A,T,C or G

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45 aatcttgga gttgtactgt gcttgagact gctggtaag gagctcttgc ttctctctat 300  
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50 gcagaatttg ccaattgttc cctctgatgg tccaatctca actgtaagaa agactaatct 600  
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10 <212> DNA

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	ctctcttcag	cttcttgtgt	tgtgacgc	actcgtcgca	gtcttgagat	atggccgccc	180
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	tcgcacagag	caacaagaag	agcaacggat	cattcaaggt	gttggctgtg	aaagaagaca	360
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	acatcaccag	aggcaagggt	atggttgact	ctgtcttcca	agctcctatg	ggaaccggaa	480
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<210> 297

<211> 965

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35 <213> Arabidopsis thaliana

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	aacctttttc	taccattcca	accaccgct	ccaccaccac	gtccgagacc	gcgtccaagg	300
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      catggccacg gtgactcgtc ttctctgtcc gattccgacg acgataagaa atctacatcg    180  
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      tctaattgct gtacattcat ccacaagtca actcctcaca tcccggaagt tcacatccct    480  
      gaagatccta ttcttcaact tgtttctgga ttaagganng aantcaatcg tggtttgann    540  
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  30    ttgtgggttt tgtccannnt tggcagctgc tacaacttct tgacattggt ctacactgct    660  
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      acatgtctca tgactacttt gatgctgagt tgaccagct tggctggaaa caggtagata    180  
      gtttgcgtaa gcatgttcat tccagtggac ttcacaagaa gatcgaactg gtcatttcgt    240  
      ctccactgat gagaaccttg caaactgctg ttggtgtttt tgggtggagag ggctacacgg    300  
      atatgagtga tgtactacct ctaatggtag caaatgcagg aaatagcagc cgtgcagcta    360  
  55    tatcgagttt aaactgccc ccagttatta cagaggagtc ctgcagagag catttgggag    420  
      tgcattccat tgatcagagg agaagtatca gcgactatca gtttcttttc cctgcagtgt    480

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30 tgcagttaac cgaagtttca accagatcac tgtatatgga gacacgagta ctaacgacac      300
   agtcattgct ttagctagcg ggctatctgg atcaccttct atatcatctt tgaactgtaa      360
   agaagctgca cagcttcagg catgcctcga tgcgggtgat caaggacttg ctaaatcaat      420
   agcttgggat ggtgaagggt ctacatgtct catcgaggta actgttaaag gaacagaaac      480
   tgaagcagaa gcagcgaaaa ttgcacgctc tgtggcttcc tcttccctgg tcaaagcagc      540
35 tgtttatggg agagatccaa actggggacg catagctgca gctgctgggt atgccggggg      600
   ttcttttcag atggataagc tgaagatata cctcggcgag ttctcactca tggagagtgg      660
   tcaacctctt ccgtttgaca gggatggagc aagtaactac ctcaagaaaa ccggtgaggt      720
   tcacggaaca gnnncaatcg atatatccgt aggtgatggt gcagccatcg gaaaggcatg      780
   gggatgcatg cttagctatg actatgtcaa gatcaacgct gactacacct catagaactg      840
40 agaccgagag acagagtttc atttactggt tttgtgttat atctcaaatt ataaactgaa      900
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45 <211> 965
   <212> DNA
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   <220>
50 <221> misc_feature
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   <223> n = A,T,C or G

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5  acaacagcaa caacaaacac gttcaaagca aaactcagag aataaactaa tcccagtttt 180
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   tcttcttcat cttcttttctt gggttacaat aacaaaccct tccaagctt atttacatat 300
   aaatcacaaac tctgcaaatt gttgaacggc gtgctgcgtc cttttgtaca acttccaccg 360
   tgataaaata aggagctaga aaaataccaa cttcttctgt tgtcttcata aaacatacta 420
10  ataccatcag aaacctgtaa gaatgcgtaa gtaaccacct ttacagtctt ttgattgctg 480
   ttgcgtctgc tttcatttaa gcacaaacgg cttccaccgc gagtttcttc atcacatttg 540
   gacacggatc tccaccaaac atctccgggt ctacagttac agaacaccag ttctgcccaa 600
   cacatagttt gttgaaagcg tcataggagt gatgggcatg acagcttcct tgacggtaac 660
   taccacaagt cctttcaggt gtcccgaac tagcaaactt cacggtgggt atcttttgct 720
15  cgggcccgcg ttgcaaattgc actttgggat gcaatggttt attaaacttt ccagaagcat 780
   gcaattggta gttcaccagc gttgattgcc attcatagat atctgcacat acactgtcca 840
   cttctcttct gaccaacgag atcncgttcg ggtctcctcc ccactcctca aagacaacca 900
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20

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<210> 302
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25

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<220>
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<223> n = A,T,C or G

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30

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cactagtgtg cttgacttca gggtaaagct cggaagcctc aactccaaaa gaaggatcta 180
35  tagtgaagga ggtaaagtca ctcttcacaa ggattgtatg gatcagaccc accaaaaaat 240
   ccattggagg cttactctct tggatggttt tgaggagttc ttctcttgaa acataagtct 300
   tttcgagagt cttaccgatc ttttctccc acaaaccaac catatcgttc tgcgatacaa 360
   tgtaattggg cgggtgaatg tagagaatct tgtaagtgt tctcgatca tcaacagctt 420
   tcaatgtata tgcaacgatg tcttcttcag tgttgacaat ggctttgnnt tgccagtatc 480
40  atagatnnnn nctttgtctc tannaggaga tctgagtcgc aagtggcatt gacccaaaca 540
   aggaacaaaa agacctgcaa agcaacctga gacgacatac gtataaggta tctttgcagc 600
   ttcaatggca cgccttatct gagctttagt gatgaactct gatagcgttg gctcaatggc 660
   taccgtacga tccacgtcat taccaaattc cnacggtaag aatctcttaa cattccaga 720
   ttctttgatg gcatcgatga tattggtttg attaagaatt tcagtttnna accgaccaac 780
45  agctgatatc acgacatcga cttgtttaat cgcttctact aagctctctt tatcacttaa 840
   acttccgtag agtatggtaa cgccgagatc tttgaatctc tcaacgagtt gggccttaac 900
   gggatcggag agagaggctt ctctaaccag agcgaagtgc gcgtggccag acttggcgct 960
   ttc

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50

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<210> 303
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55

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 <223> n = A,T,C or G

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 acgatcttct ctttcaaaga caatcaagtg agagatcttt gccttttctt acaacaaatc 180  
 aaatgtttct aaggatcaaa ccttagatga agttacggat gtctagagac ttcacgtccg 240  
 gcatttcctc atcctggaat tcctccttct ttttctgaga ttccatagct tcaacagcat 300  
 cactcttcag ctcatccaac tgtgctttgg ccatgctgag ctccaaattt tcttcgtact 360  
 15 taggaagatc ttcttttcta atcccaagct ttttggtgcc tttctcaaac tctgcaacca 420  
 aaagatccat tcctttcttg tcacttctca ggagaggctt ctttatgtcc ttctcgactt 480  
 tctccaaagc ctogaacatc atggcctcag caccaagctc atcagtaagc cccctcctgg 540  
 tgcgaatntc ctgcaacttc aacaagtatg cacgagcatc tggaaatgtc tgagtctcag 600  
 tatcaatgtc atgtttaatg cgttgagatt ctgagaacat gtctgccttt tgctgatgg 660  
 20 tcttcattac atttgcatatc tgttttacgg cagctgggtc ctctggatca aggggtgatct 720  
 tttccttacg gagaatatca acagcagcct ggaatttggt cttgatatca aaaaagacac 780  
 ccttcaacat ctcatctcct ttaaagggtg gacgagcagc ttccttagca aaagctcggg 840  
 ctggaatagc atgttgctgc tgcaaaatga ccagaccccc ctgtagctgc ttagatctgg 900  
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 25 aaa 963

<210> 304  
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 <212> DNA  
 30 <213> Arabidopsis thaliana

<220>  
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 <222> (1)...(962)  
 35 <223> n = A,T,C or G

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 cctcgcactt caccgtcaac cccttatcca ttccaccacc ggcggccacc gttctcctct 180  
 tcttcggagc tccgttctcg ttagaagaag gaaaagaaga tctcttggaac ttaatccgaa 240  
 ccgggtcggg ttctcctgaa ttaactctca acggaaaatt caacaaagcg cgggaaccac 300  
 gcatcctgaa agcagctctg tcgtaagcca acgcgcgctc ctccgcgcgtc tcaaacgtcc 360  
 ctaaccaaac cctagctccg ttcttcgcgc ggtctctaat ctccgcgcga aatttcccc 420  
 45 acggcctttg tctcactcct ctataatgct ttcccttcgc cgcgcgcacc gccgcgaaa 480  
 caggactnnn cntcnnnnnn ttgaccggaa cagaatccac cgccgcgaaa ctctccggag 540  
 tctcgatctt aacactcggg aaagagctac gatcttcgtc ggaagacgaa gaagacggct 600  
 cccaaccgcc gtgaaaggcg tcggttagga taccgtaaac taacatatcc tcagaatcgt 660  
 tttctttcaa cggcaaactc cccagctctc cggtgaaagca aggatacagt ttgctaaagc 720  
 50 tagggttctg tccgtacacc ggtttaatgc tctgaccggt tacacaagat tgagtaaccg 780  
 aactcgctgt cgactcactg agtatcggct ccgattctcc tagtaagtgt cgtcgtatgg 840  
 actcaagaaa agcataatca gattgagaat ccgcggtcat cgacataaca gaaagagaat 900  
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 tg 962

55 <210> 305

5 <211> 962  
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 <213> Arabidopsis thaliana

<400> 305

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	ctctttacatc tttcttttta taatcttttg	ctcccgagat ttttggtaaa gtgtcagtct	180
	tctttcatca atccactgaa actgggttca	tctcctctgc ttctttcttc agctcatcaa	240
	acagaacaga cgacagatat ctttctccga	agctcgcatg aattgtcaca atgagtttgc	300
15	ctttattctc tggcattttc gccagtctaa	ttgctgccac ggtgttagct cccgacgata	360
	tcccaacctt gagaccttct ttcaatgcca	attctctagc catctttata gcacctcac	420
	tactaacctc aagaacactc tccataacat	ccatatccaa gatttctggt ttgaatccaa	480
	caccattgcc tgtgatagca tgtggacctg	gtttgccacc gttgagtatg ttgctttcag	540
	caggctccac tccatatatc ttgacattgg	ggtttttaga tttaaggtat cggccaacac	600
20	cagagactgt gcctccactg ccaattccca	tcacaaatat atcaacattt ccaagtgtat	660
	cttcccaaat ctccaggacca gttgtatcaa	aatgaatctg agtggttgca ggattagcaa	720
	actgttgaca catgaaagca tcaggagtac	tatcaaggag gtcataagct ttcttaacag	780
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	tgactctcct ctccaagcta gtgtacgaag	gcacgtcat tataatcctg taccctttca	900
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	tt		962

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 30 <212> DNA  
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<220>  
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 35 <222> (1)...(962)  
 <223> n = A,T,C or G

<400> 306

40	gggacattaa tgctgtctca tccagaagta	gaatggattt ggtggatgga tagtgatgct	60
	ttgttctactg atatactggt tgagatcccg	ttgcctcggt acgaaaatca taatctgggtg	120
	atacacgggtt atccagactt gctgttcaac	caaaaatcat gggttgcatt gaacacgggt	180
	atctttctgt tgagaaattg tcagtgggtca	ttggatttat tagatgcttg ggccccaatg	240
	ggaccaaaaag ggaagatccg tgacgaaact	gggaagatac tgacacctat ctgaaaggca	300
	ggccagcatt tgaggccgat gatcaatcgg	cgttgatata tctcttgctt tgcgagnnnn	360
45	aaaaatggat agagaagggt tatgtggaga	atcaatacta cttgcacggg ttttgggnng	420
	gtttggttga caggtatgaa gagatgatag	agaagtatca tccaggattg ggcgatgaga	480
	gatggccctt tgtgacacat tttgtagggn	gcaaaccgtg tggcagctat gctgattacg	540
	cagtcgatag atgcttcaag agcatggaga	gggcttttaa ttttgcagat aatcaagtgc	600
	tgaagctgta tgggttttagc cacaggggac	tgttgagtcc caagattaaa aggatcagaa	660
50	atgagacagt ctctcctctg gagtcatgag	acaagttaga tattcgaaga atgcacatgg	720
	aaaccaaacc atagagctag gaaaatcaat	gagtgaaacg aatcacagtt tggcaagatt	780
	acaggaaaca atagatgat atacaaatac	tctcacaac acaatgcaat ttgtttaccc	840
	tgcacttggt ccttgtgctt cattgtttgg	tctcatgaag ataagtttta actgtcaaat	900
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55	aa		962

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 <212> DNA  
 <213> Arabidopsis thaliana

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 <222> (1)...(962)  
 <223> n = A,T,C or G

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 agcggggaaa acaaaatata aaaaggctcg gaggtctact atgagaaaag cttcgagatc 180  
 aatctgaatc agagtcgaca ttcgctgaag acctaacgga ccgacgtatg ctttcttgat 240  
 20 actcgtaatc ttctcatct tctctttttc tcttttctact aagcattcct ttcttgacca 300  
 gaagattctc cagcttcgtc gtggagaaat cgtccttggc acctagatct tgaaacccga 360  
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 25 tgtggtagaa gtgacatata actttttcac tctttgtgac ttctcccaag aagtcgcctt 600  
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 attcgtcaag atcaacttcc tcgttgacag gtcttgatcc ttgtgccttt tcatttgcaa 780  
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 30 agagggtcga cttcaccgta tccggatcca tctctttacc aacnnnctaa tccaactcag 900  
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 gg 962

<210> 308  
 35 <211> 961  
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 <223> n = A,T,C or G

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 tatctccata gacacttctt ttcttctcta tgatacgaaa cacgtctgca ccattgaact 180  
 taaacaacaa caataaacac agtccactcg ctgtaatcga ataatacagc tggcttgaac 240  
 cgcggtatct gcaaaatgga gcactaaact gnnataaaaa ccagactaac cagtaatgtg 300  
 50 atgtgatgat caaggcttcg gaaaggaaca atcgctgtag acttgttatg ctttgatctt 360  
 aaatacaatg ttgcgacagt ggttcttcgg gtgtatgggt tagcgtaaaag gatggttata 420  
 tttctcttgt actccagttt ctctcttttg tgttgcttat aatcacaaaag ngtncttttt 480  
 gctttcaagc attgcaccgt ctttttagagc agtgtgtgct tcgttctctt gtcctagagc 540  
 tgacaaagct acagcttgga gatacgatgc gatatgcaa gcaggagata tgacttggtg 600  
 55 ttgcattgca ttgttttagtg cttctctagg catatcattc attaggtaac acagactctg 660  
 tcttgcatga acagttgggg aaccattgt acctacctcg atgaactgag aatagcattc 720



5 gatggccttt gcaaagtctt tatgtcggaa tgcagaatcc ccctttttct tgaagannna 780  
 tgtgtcctgc atctggtcgg tccacatctg gaaagaaagc tctgtggttg caccctcgtc 840  
 atccttatat ccaagcttct caatgatctc atgtatggca gttagatctg atcttaggca 900  
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 a 961

10 <210> 309  
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 <213> Arabidopsis thaliana

15 <220>  
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 <223> n = A,T,C or G

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 ctccggcaaa acttagaaga tccggcgagt aatctccgta actggacaaa ctccgtcttc 180  
 25 tcaaattccat gctccggctt caccctcacc ctccccggag cttagctgtaa caacggaaga 240  
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 aactgtacaa atctccaatc cctagatcta tcatcaaacc agatctccgg cgtaatccca 360  
 ccggagattc agtatctcgt taacctcgcc gtactaaacc tctcatcgaa tcatctctcc 420  
 ggcgaaatca ctccgcagct cgctctttgc gcttacttaa acgtaatcga tctccacgat 480  
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 aatttcccgga ggtttaacgc gagttcgttt atagnnnnta aaggattgta tggttatccg 660  
 ttgcaggaga tgatgatgaa gagtaaagggt ttgtctgtga tggccattgt tgggattgga 720  
 cttgggagtg gaatcgcgag cttgatgatt agttttactg gtggttggtt atggttgagg 780  
 35 attactgaga agaagattgt tgaagaagaa ggtaagatta gtcaatctat gcctgattac 840  
 taaacgtaag attaaatttt tcttaattaa ggattttgat tgtaattac ggctttgaag 900  
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 a 961

40 <210> 310  
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 <212> DNA  
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45 <400> 310  
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 gcaagaggat gttatataca catgactgat atagagagaa gtttccgaat ataaagtata 180  
 caacgtaatg tactaatagg gatgtttctt taatcggttg ctccgagtga agtaatccct 240  
 50 aaaaactggg tactttgttc cgtggagaaa acaagcctta atactgtaca ttctgtttct 300  
 tccataaccg cgccagacct gtacacttag ttacaccttg atgggtgagtt agagttccca 360  
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 ctccctcgga ttttcgataa gatccattgt gtaagaccaa tctgaatcag gcgcgggttat 480  
 gttccaaatg cttgaaaaca gttgctcgtg atcattggcg tcttgaccat catcatggta 540  
 55 ggagacttct ggaaacaatt gcttttggtc cttcatagaa cttggagtct gcattgtatga 600  
 cgcaagggca gacttttcct ggatctctgc atatgccaat gaagcaactt tcccactggt 660

5	gaattttctcc	catatttttac	cattgaaagt	ctgttggaag	ggaacgatgt	gcaatggaga	720
	gaccatgttg	ataaaagcgt	gacccatgtt	gcattttattc	tgtatccaga	aaaaagctta	780
	aagtctgtcg	gcaagcatag	aaagtcatag	tctcccttgt	gcttttcgtc	gatttcagcc	840
	accagcatct	tgtaagtgt	cttggttggg	atgtttttga	tgattaatgt	agttcggatt	900
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10	t						961

<210> 311

<211> 960

<212> DNA

15 <213> Arabidopsis thaliana

<400> 311

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20	ctgtctgtct	ttgagttggc	tcatagactg	tgtaatgaaa	cttttacctt	caaaagtttc	180
	tgatgttcga	tggaatgcact	ctgcaacggg	ttagcctgtt	aaaggaaagg	agtatccacg	240
	aagggtactg	gagtcactc	ccgattcacg	agccaatgcc	acacgaccgg	ttcttgcaac	300
	ctcacatata	ccatagggct	ccaataacct	ttgcagtgc	accatcttgt	ctagatcccc	360
	agtaagctgc	aaagtaattg	tgtgatcaga	tacgtcaaca	gcttttagccc	tgaaaatact	420
25	agcaatgtcc	aggacatctc	ttctagcagc	agcgttcacg	gcaatcttaa	tcagcatcag	480
	ttctctttca	gaaaatggca	aatgagtaag	atcatggacc	tcatgcacat	ctacgagttt	540
	gtaaagtgtg	tgcaaccaatt	tgctgaccga	ttcatctgtt	gcaggtataa	ctggttgaat	600
	gcgtgaaatg	cccttggttt	cagcatgtcc	tacggccaag	ctctggatat	tgtatcccct	660
	tcgagcgaaa	acaccagtca	caatattaag	aactcctgga	atatcattta	caagcaatga	720
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	tgatgtttcc	ttttgagggg	caatggctcc	ttttttgcta	cttcgaagaa	cactaacagg	900
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<210> 312

<211> 960

<212> DNA

<213> Arabidopsis thaliana

40

<400> 312

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	agagaagaca	agaatcaatt	aaagagaaaa	aaagatgaag	aaacagggtt	tgggtgtttta	180
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<211> 960

10 <212> DNA

<213> Arabidopsis thaliana

<400> 313

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	gccgtttcac	acactaacac	tacaactagt	ggtaaacgta	tacttaacgg	cgttgtctcc	300
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	ggcgtcttgg	aggatgaagc	gtggctttga	tggttgagga	attgcccaaa	tgaggaggat	780
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<211> 959

<212> DNA

35 <213> Arabidopsis thaliana

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	tcttctaaac	aaccttttag	tcagattcca	caactagtag	cacaaccagg	tccttcttct	240
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	aacagaccat	caaagatgat	gaaagtggag	gataggagaa	ctacttcaat	ccctggaggt	540
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	gatcaaaaag	gatatttttc	cgcatacaaa	tcacatagaa	aagaagaagg	ctctctcacc	840
	tgaattgagg	tgagtgtatt	tacgattagt	gtagcattta	tttgtgtctga	gtttgtctta	900
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5 <212> DNA  
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 atatggttcc aaaacactgc agggccggca aagcaccagg ctgtggctct acgagtgagt 240  
 gctgatcaaaa ctgttataaa tcgttgctgc atagatgcgt atcaagacac gctctacact 300  
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55 <210> 317  
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5 <213> Arabidopsis thaliana

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10 <223> n = A,T,C or G

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15 tatagggcca	tatatctctc	tttagtgatt	tacaagtaat	caggcacgta	agnnngtttc	180
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cccagcaaat	agttgacaac	ctggtgagtt	gttatgaggt	cgagtggctt	gttgccctgat	300
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30 <210> 318

<211> 957

<212> DNA

<213> Arabidopsis thaliana

35 <400> 318

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<211> 956

55 <212> DNA

<213> Arabidopsis thaliana

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 acccgagat gttatcggtt ggactatgtg ggttttcggt ttcttgattg aagctgcagc 360  
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 gatttttccc cggtgaaact agtaatcaga gcataagcaa taagtatggg atgactagta 900  
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 55 tcaaaatttc tactttatgc ttgaactacc ctctgttctt cttgactcaa cacctaakat 180  
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   ctcacaagca tcactagtct ccagaaactg cctttggcta gctgaaatct ctgaggattc 780
   aagaagctta tgtgcaaata ggataccgtt gagaggattc ttgatttctt gtcttacgta 840
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<212> DNA

20 <213> Arabidopsis thaliana

<400> 324

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 attcttcatc caccacaca aaaatagcac atcttctatt tatcccatat ctctggggaa 180  
 tatacttaag aaagaaactg tataaactag taaaatacca tttcttcaga caattattat 240

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5  taatactcct ccttataatc atatatgtat aatgggggtat ctctctcttt ctggatttga 300
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   gcaaaaatgt ccaatagaga aagcacctca gggacactga gttcgagtcg gaacttagga 420
   ccgtcgtagt ggtgcaaaat gggtcggaaa gaatcttctt ccagtggcaa acatactttc 480
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   tccctgtatc ttggtggcaa tccgaaaagc tggcgtttga gattctcttc catggtatcg 720
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   ggaagagtct taaacctctt gtccaaacca ttgttcttgc cgtcttcggt cctctggtta 840
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20 <212> DNA

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<223> n = A,T,C or G

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   gggccaaaat ccatgtgtgt gacatatcga aaactctgct caatcaaagt ttatccgaat 180
   gggagaagaa agggtttcaa gtgagtgggt cagtctgcga tgcattcaat cgtctcgaaa 240
   gagaaacact tatgcaaact gtcaccacaa tatttgatgg caagcttaac attcttgtga 300
   acaatgttgg cacaattcgc acaaagccaa caatagaata tgaggcagaa gatttttctg 360
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   taaaggcttc aggcaacgga attattactt ttatttcttc tgctgcaggg atcgtatcat 480
   ttgatgctgc atccatttat ggtctaacga aaggagcttt gaatcagcta gcacgaaatt 540
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   ncactgctct ggctaaacct tttctcgaag acgctgggtt taacgagatt ttgtcgagta 660
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   ttaatggctt ctcatatcag ccataggctt gagccatgtc ttgtcttgtc ttgtgtgttg 840
   tggagtatgg tcatatggtc agtatctcca taatctaaat ccatagatat gtgagttgtg 900
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<212> DNA

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50

<220>

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<223> n = A,T,C or G

55

<400> 340

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	ttgtgaacca	tttcctggga	acagacggga	ataaactaaa	aaacttttga	caaccgtagt	180
	gaaagtattc	aaaggctctc	tctcttttct	caaagtcttg	caacttttga	tttactcctc	240
	tctgtagtct	ggatttttct	tcaatatgac	gaaaccttct	aatatgggag	acaacggaat	300
10	gtacttctcg	gttgcgagtt	cagctctctc	cccagcagca	aggagaacag	gtgttgagtg	360
	cgtttggaac	ccagtgattg	tcttaggtcg	gcctgcctgt	ccaaccacat	caaccgcttg	420
	tcttaccgcg	actggcaccg	agatgggctt	caggctctga	tccaccgtca	gcacatcnn	480
	nnctgcatc	gccccaaaca	gnnagtagag	cacatagtga	tatttcccca	gtataatgga	540
	tttcatgtca	aggcatgcat	gcannaatgt	cactatacca	gcaagtgcgg	ttggcgatag	600
15	caagagccgt	tcggagtggg	aaggattgag	agttaagaga	ccctttccca	tatgcacaaa	660
	cccttgagcg	atgcccacac	agaaaagaag	gctggcatcc	ttgtaataat	agctggagag	720
	atttctaage	atgccagcta	tcttgcatt	gttggttcca	gcgcctatca	atccaagggg	780
	gataattgct	gccattgcaa	cttctgaatc	tgtcatggct	tagtctgctc	aaagtgtcca	840
	taacagtcac	ctttgggttt	gatatacata	ggagaccaag	agccaaaggc	actgcacgtc	900
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25 <213> Arabidopsis thaliana

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30	aaagaaactc	gagatcgatg	acgatcaaaa	actccgcgcc	tttttcgaca	agaggctctc	180
	tcaggaagtt	agcggagatg	ctctaggcga	ggaattcaag	ggatacgtat	tcaagatcat	240
	gggaggatgt	gacaagcaag	gtttcccaat	gaaacaagga	gttctcactc	cagggcgtgt	300
	ccgtcttttg	cttcaccgag	gtactccttg	tttttagagga	cacggaagga	ggactggaga	360
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35	ggtcattgtg	aagaagggtg	taagtgtatc	tcccgggctt	accgacactg	agaagccaag	480
	aatgagaggt	cccaagaggg	catcaaagat	ccgcaagttg	tttaaccttg	gaaaagagga	540
	tgatgtgagg	aagtacgtta	acacttaccg	ccgtaccttc	acaaacaaga	agggcaagaa	600
	ggtttagcaag	gctcctaaga	tccagaggct	tgtgactcca	ttgacctccc	agaggaagag	660
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	caagaagagg	tctagactct	cttctgtctc	tgctaaaccc	gttgctgctt	aaactgcctc	840
	aagattaaga	aatttctttc	tctctagttt	gtttctggtc	gtattttaagt	tgctccacag	900
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45 <210> 342

<211> 949

<212> DNA

<213> Arabidopsis thaliana

50 <400> 342

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	gggagatgta	gacaaacaaa	cattaaactg	ctagaacaca	ctgaaaatac	cacaatttct	180
	caccaatacc	cgatcgtcaa	cttgattgtc	tagcagaagt	tggaaaggta	agcttgagct	240
55	aaggagagac	caagctggac	ttgagcctcg	gtgggttaagt	gaagattgtc	ggacttttagc	300
	ggcaatccct	tagcatctac	acagaccaca	ttcgacagtt	tcagtcccaa	ctgtgcttct	360



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5  ctcaccttat ctatgtatcc tcctcccgat gctattgcc a cctgaataat gggaagagaa 420
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   tcggcgctcat ggatgtccaa caggtcactc tctccttgat accacaacac cgccttgatc 540
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10 gccgaatctg tttccaggcg attcttcacc gcgttagcga acgccattcc tggacctact 720
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   tcccacaccc agcgattgtt gtggtggtct ttgaagacgc cgccgcgtcc tgccatattg 900
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15  <210> 343
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20  <220>
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     <223> n = A,T,C or G

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     gtgcaaaggc tgaagcatct ttatttgtaa cagaagcaaa cgaaaacggt tccttaagaa 180
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     tctgcaatct ctgtctccca cctatctcca ttctcaagaa gcttctcttt gtcatacaga 300
     agttcctcat gtgtctcggg tgcaaaactca aagnnnnnnn nnnnnacgat tgcataca 360
     gggcaagctt cttggcagaa accacaatag atgcatttcg tcatgtcgat atcataccta 420
     gtggtttctg ggcttccatc ttcccgcgtc tctgcctcta ttgtgattgc ttgagctgga 480
35  catacagctt cgcagagttt gcaggcaatg cagcggttct ccccgattgg atacctcga 540
     agagcgtggt caccacnnan ncgagggctc aatggaccct tctcaaaagg ataattgatt 600
     gtaacttttg gatcaaagaa gtacttgagg gtcagtgaac aacccttgac catttcagtg 660
     agaaataggg tgttcattgt ccgttcaaag acagtactcc agtccttgga gatctcttta 720
     gcaagctgct cagcttcttc atcatctttg ttgcttccat aagatatagc acgggactgt 780
40  agcccacaga gatgagatcc ctgtaaacct tgccctgaaa aagcgagatg tcgagctcgg 840
     agagcactga acgacctgcg agctagtagc gaagccatcg atagaactca aaatatcaaa 900
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45  <210> 344
     <211> 948
     <212> DNA
     <213> Arabidopsis thaliana

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     cccctagttt ctcgagaagc atcctcatcg ttctcactc gctccgccgc cgagccacaa 180
     gaaagaaaaa ctttccatgg actgtgctat gtctcggcgc acaacatcga cactgaccaa 240
     atcattcccc cggagtttct cactctcgtc ctttcgaatc cagaggaata cgagaaactc 300
55  gggttcttaag ctttagttgg tcttccagct tcttacaagg aacgattcgt tcagccaggt 360
     gagatgaaga cgaagtactc aatcatcatt ggcggtgaaa actttggatg tggatcgtca 420

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5 cgtgaacatg ctccggtttg tttaggagca gcgggagcta aagcagtggg ggctcagttt 480  
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gatgctggac cagtgattga tgctgggtgg atatttgctt atgctaggaa agctggaatg 720  
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<213> Arabidopsis thaliana

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cgacagaaac agggaaatga aaaaccaacg attgtacatg aggagcgatg aagaaaacca 180  
gactcaagat ttcacatttg tttatgtgtt tttgactcac caccagaatc agaacatgta 240  
25 gacgacactg tcgtggatcc tggacttctg gttctgtgca acacattcag atatccacat 300  
aagggttcctg atctcctgct ctcttaacct catatacgca aagaataccg cgtaatggaa 360  
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<212> DNA  
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<223> n = A,T,C or G

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5 taaaagaggc ttgaacgtcg tcggatggat gaacactgtg ttgaaagaga atcgattaga 540  
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 gatagctgag agatgtacag atgctaaccg ggagaacagg cccggctatga accangtggc 660  
 tcagttgctt gagcaagaag tcatgtcacc ttcttctggg atcgattact acgatgattc 720  
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 10 tgcgacgggt ttgttgttgt tgctgctgcg ttatgaatgt tgtgatttgg gagegagggg 840  
 ttgttttgta tattagatat gaagggtggg tcaagattat tgagcgtgca ctgttcttgt 900  
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15 <211> 945

<212> DNA

<213> Arabidopsis thaliana

<220>

20 <221> misc\_feature

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<223> n = A,T,C or G

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 atttcggagg agtattcgtt ggagtatgga acagatacga ttgagatgca cgtagggtgca 480  
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<211> 945

<212> DNA

45 <213> Arabidopsis thaliana

<400> 348

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15 <212> DNA

<213> Arabidopsis thaliana

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   tgagttgctc acaagctcat tgcctaatga agtacatcat tttcagttga aagnnggagt 360
30 ggggcatatg agtttggtgg agagtgttgc ggtagtgaac cattacaagt accaagtttg 420
   ggacactttc aaagctaagt ttacagaag agtggctact tatgttggtg actggcaaga 480
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<212> DNA

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<223> n = A,T,C or G

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<213> Arabidopsis thaliana

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<213> Arabidopsis thaliana

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<223> n = A,T,C or G

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<211> 939

10 <212> DNA

<213> Arabidopsis thaliana

<400> 363

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<210> 364

<211> 938

<212> DNA

<213> Arabidopsis thaliana

35

<400> 364

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40 atagaggaag aagaaagaag aaacagacga cgacgttgat tcatttcttg ggtttttggc 240  
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55 <211> 938

<212> DNA

5 <213> Arabidopsis thaliana

<400> 365

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<210> 367

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50 <212> DNA

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55 <222> (1)...(938)

<223> n = A,T,C or G

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&lt;210&gt; 368

25 &lt;211&gt; 937

&lt;212&gt; DNA

&lt;213&gt; Arabidopsis thaliana

&lt;400&gt; 368

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&lt;210&gt; 369

&lt;211&gt; 937

&lt;212&gt; DNA

50 &lt;213&gt; Arabidopsis thaliana

&lt;400&gt; 369

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<211> 937

20 <212> DNA

<213> Arabidopsis thaliana

<400> 370

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<211> 936

<212> DNA

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<223> n = A,T,C or G

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<400> 371

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10	gataccacgg	aggagagtga	tgttaccacc	gatgaaagca	ccgaaagtga	cggcaggggtt	720
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	agccagtgcg	gcagctacga	gaccagaagg	agtgggtggct	ccgttttcag	tgagcttggt	840
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	cgttacatat	acattcacag	gaacttacat	acagagaaga	gaagatcact	tatggtgctg	180
25	cctcttcctt	ttgcatctgt	tcgataagag	gctcgagaat	acaagacttt	ggattcttac	240
	ccggtggacc	tttttctctt	cgttcaagct	cttcaagcct	gaaagtaatg	agacggtccc	300
	agtttctctc	ttcgaacaag	acaccagctt	ttccatcagt	gatcctctgc	acaattccac	360
	aatacatgtg	atacggactg	ttctggttct	tgactatagc	aatcatcccc	ggcatgagaa	420
	ggggtagctt	gggcgctttc	ggcttcttat	ctgtagcaac	cgcgatgca	tcgcttcctt	480
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	ccttttcgcc	accgggaaat	cctcctgtga	gacccatcat	ctctttctcg	aaaccatctt	600
	caggtacttt	aaaagacaag	ttactgtcat	cgctctctct	ctctgtctcg	ttgttctcag	660
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	aaaattgatg	tgtttggcct	agaaattttg	atcgatgaat	cggagtctta	atggtcggga	900
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	ttagaagaag	gtttcttgga	tccacgtccg	gctataaaact	cctgcattct	tctaaactgt	180
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	catgaaggaa	atatcccaaa	cctggcgtga	gtatccatga	acttagctcc	tctagaagcg	540
	acaaaaatat	cacaggccaa	ggcgagttca	aaccggcgcg	tgatggcaaa	accgttaata	600
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	ttcacgtctc	ctttgaaaac	agactccgcc	gcagtcaaat	caacgccaga	gcagaaagat	720



5 cgacctgatc cggtgaaaat cacgacctgg accgattcgt cggagtccat atccttgaat 780  
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10 <210> 376  
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<212> DNA  
<213> Arabidopsis thaliana

15 <220>  
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<223> n = A,T,C or G

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aatcagccct aaggacgacg gagttgtaga gatctcagat tctgtgccgc tctttcactc 240  
25 taacctcgct ctcttctctc ctctcgagat ctccctcatc atgatagagg agcattatgt 300  
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30 aggaagcaag ctactcttaa aagagccatc ggccaatgta gttttgtcag attacatttc 600  
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tcccttgaat cttgttaaag tattatccag ctatgcaaca gagctcaaat tacnnttaat 840  
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<210> 377  
<211> 933  
40 <212> DNA  
<213> Arabidopsis thaliana

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ctcacctttt aacctaattc tagacagact tatctgcctt ttaaaaaaga cattttaaaa 180  
cagaaacaaa cactctttta ttttgctcca taacttgtgt attgcttctt tcactattgc 240  
ttgetcaagt ttctgataac atatggaagt atgcctccat ggttaaagta tgccaattcc 300  
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cccattccca ccaagttgct tcggtgaatc ctctcaaaac tctttgcaat caccgcttta 540  
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gctccagcca gaataattgt gtcttcacca gatgacttgt acctcatggc agcgtcaaag 660  
55 actgagagct tctctccaga tggaatgtga acagtcttag ggccaacttc accattcatg 720  
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5 cggcgacttc catatgagtt gaagtcctta cgggtcaacgc cacgctccat gagaaaacttt 840  
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10 <211> 932

<212> DNA

<213> Arabidopsis thaliana

<400> 378

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agcttggttaa ctctaaatga ccaaattggat gaaagagcaa caacatggtg atatgatata 180  
cacatgtatt atgaaacttg gtctcaacaa ggtaacttga aacccatgta acgaccagag 240  
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20 atgacgatac caaccgagaa cacaatgatc gaagcccttc cataactcgtt tattaccttt 360  
tgaaccacct ttagtcccac gagtgatgcc acaaaacata tgaccgcaa tatacttgcg 420  
gttccggtat gttccatgcc tagtaataag tattgaatcg cagacattgt tgatgaaaaa 480  
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agaggactaa tgagcattcc acctccaata ccgaacacac caccctaaaac tccagctaat 600  
25 agagccatta cagggaaacat acacttggtt gatcttgctc catcatttga tctcaaatct 660  
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35 <213> Arabidopsis thaliana

<400> 379

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40 cacaattttac gggtacttta accatcagtc tctatatgct cactcatgag caaaagtfff 180  
taagcggcaa gcaacttctg gatgtctttc tcgatttgga aaggggatgt ggtgggaggg 240  
tacctctcaa cgacctttcc ctttttatca atcaagaact tctcaaagtt ccatttaatg 300  
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45 aattgtttga tctcggagtt tgaccggggc tcttggaac caaactgatt gcagggaaaa 480  
gctagaatct caaatccttg agttttgtat ttctcgtaca gatgtgaaag ctctgagtaa 540  
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aatttggttca aagcaacatc ctccccatca atgtccttaa cggtgaaatc gtgaacgggt 660  
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50 ttaattggag attttagaga aaaccctta ctacagattcg cgaaattcga tattccggtg 780  
gagaatttca aggaaggag gagaaagggt gctgaggaat taggtctaga actgttgaag 840  
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55 <210> 380

<211> 931

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5  <212> DNA
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   <220>
   <221> misc_feature
10  <222> (1)...(931)
   <223> n = A,T,C or G

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   caaatgtttt tcttcttttc atctcaaatt tcacatttcc actaatcaga caccaattgt      180
   ttaagcagag attggttcgt atggatatga aagccaaggg tgcttcagag cctctgctgc      240
   agaaggacgc ttctttgggt ttatctcaag aagatgagcc acaaagtctg tgaatccttg      300
   gtctcccatt ggcagccgat gtctcaacga tgttcttttt ggtatcaggt actccaatct      360
20  gttgctttcc tgggtccgct catagagcat tcgggttttt gtgaagtatt tgtggnnnnc      420
   ncgtncntnn nnaagcattt cattatcgaa agatcctacg attcccataa cccttgctag      480
   caaactggct ggcgaatcat tctggaagag aacgttgccct gtacacagtt cagccaaaat      540
   gcaccaaga gaccacacat ctatcttttt atcataagga agtcccaaaa tgacttctgg      600
   tgctcgatat gaccttgact ggacatagga gcataggtgg tctgtctcga aacagctact      660
25  tccaaggtca atgaccttta ttccacatct gctataactt ttaaccaata tgttctcagg      720
   cttcaaatca cagtgtataa gtccaaggcc atgtagaaat tgaagtgatt cgagacactg      780
   gatagtgatt gactgcaatc ttggcatcgt gaaataaact tcaccacctg attctctggt      840
   aaatttgtgg aattcgtata gattggcctt aagaaattca catacaatta gcaagtgctc      900
   gcggtagtaa aagtaatcat acaaccgtag a                                     931

30  <210> 381
   <211> 931
   <212> DNA
   <213> Arabidopsis thaliana

35  <400> 381
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   cagagaaaag tccaattttt taaaattagg actttttgat tttcgaaaat tttgggtgta      180
40  atggaaacag atagtatcga ttccgtgatc gatgacgatg agatccatca aaaacaccaa      240
   ttctcatcaa ccaagtctca gggaggagcc accgtggtaa tctctccggc tacaagcggt      300
   tacgagctcc ttgaatgcc tgtctgcacc aattcaatgt acccaccaat ccacaggtg      360
   tttcaatggt ttggtcaata cttttgtctt cattttgaag cgtttcagct cgggtatggct      420
   ccagttttaca tggcgtttct gagattcatg ggcatgaag atgacgcacg aaactataca      480
45  tacagtttag aagttggagg cagtgggaga aaacagacat gggaagggac accaagaagt      540
   gtcagagata gtcacaggaa agtcagagac agtcatgacg gtcttataat ccaaagaaac      600
   atggcactct tcttttccgg tggagacaag aaagaactga aacttagagt cactggaaga      660
   atctggaag agcaacagaa tccagattct ggtgtttgca taacctctat gtgtagtagc      720
   tgaatcaaaa tcagccaacc cttcaaacct atcttaaggt gttcgttcga tttcttcaat      780
50  tcgattttgt ttcggggttg tgtgttggtt tggtcagaa tccagatagc ttttttacat      840
   tcaaaagtgt atttagagaa gtaaaaagag ttgttccatt tgccagaaat gtgcagaagg      900
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   <210> 382
55  <211> 931
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5 <213> Arabidopsis thaliana

<400> 382

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10	ctaaaatgtg	acatgatcct	caatctaaca	gacaaaagta	acaagttttg	tgacacaagc	180
	tgataggtaa	attacccaaa	ttgagttttt	tcaatcaaag	acgagcgatg	actgcttcga	240
	cttcttgtgg	agtgtagaga	tgataagctg	gtgctacctt	ggcaatatcc	acgttatttg	300
	gagtcacctt	ttcttccata	acttgcttta	ggatagatac	agcgatagtc	tcagcttctt	360
	gtagagacaa	atctttgttg	aattgctctt	gaagagagct	atcagctcct	tcagaacctg	420
15	aaccaattgc	ctttgcattg	cactgccaga	atgttcctga	aggatcagtg	tagtacaagc	480
	ttgggtccatt	ttcatcatgg	ccagcaatga	gaagagatac	tccaaacggc	cgagacattg	540
	attcttcctc	tccttcacca	aaccgtaaag	ccagatcaca	cagtgtctgt	gttgtggact	600
	ctacagtcac	cggtccacca	tacgagaatc	tatggttttg	agtttcaact	ctagcatgct	660
	caacaagtgt	gcgcgcgtca	gcaattaaac	cgctcatagc	acaaccaata	tggtcatcaa	720
20	tttccataat	cttctccaca	ctgctcgggt	ccagcaatgg	cgacgtgata	cgcttctcga	780
	cagcaagcac	aactccttct	tttgtcttta	ctccaattgc	agtagaacca	agcttgatag	840
	cttcaatggc	atattccact	tgaaatagcc	ttccttcttg	agaaaaagtg	ttcactcctc	900
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25 <210> 383

<211> 930

<212> DNA

<213> Arabidopsis thaliana

30 <400> 383

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	cttctatacc	taatttgacc	catttttttta	tttagagact	tttttttttct	actggggaga	180
	aacagtgaat	aaggtatatt	cactcactcg	ccagcagact	cacctgcatt	cattcttcgc	240
35	catcatcatc	agtagacaga	aatgtcgcgc	cttatgcctc	ccatggaaaag	atttttccca	300
	gaaagctttt	ggtcctcacg	caagcccagc	cacagacacg	atatacctcg	catcgcagcc	360
	tgccccacca	ctttcacctt	gtacaccatg	ctcagatctg	cagctgccgc	ccatagctca	420
	ttcccattaa	ctttcactga	cctccgtgac	cgtgagtcac	catcattata	gccctctaga	480
	tccgagtggg	tgactacaac	cattgaccca	tcatcaaaac	ccactacatt	cccagaacaa	540
40	acctgcttca	catttctcgg	gatcaaagct	gaagttgcat	cagttaagca	actctgagta	600
	ttcagcacct	tgacatggta	gtactcaaca	acggccttcc	attgggctgc	tgctaaaaga	660
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	tgaaccaagt	agcatatgac	aatagtgtgt	ctgcgacccc	gacccgcttt	gcagtgaaca	780
	taagtcgtct	ttccaagcga	agcatttcta	tggataaatt	ctacagcttg	gcatattgct	840
45	tccatggaag	gagcaaaaca	ataatctctt	gtagcaatca	ccaggtgggc	aatgcagtaa	900
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<210> 384

<211> 930

50 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

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<223> n = A,T,C or G

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acagaacat tcttcagtgg agtttgtctc agcggttctg aagagtctcg attgcctttt      180
10 tccacactga agctctctgt tttgctctt caaatgataa aaccttcttt ggcgtgcaaa      240
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20 ggtctcttgc tgcttctgaa aaatgatttg ggaactttat atctctggct ataattcttt      840
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<210> 385

25 <211> 930

<212> DNA

<213> Arabidopsis thaliana

<400> 385

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gcttctccga ttcctccttt gttcgaagat tcttcagtct tccatggagt cgagcactgg      180
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50 <213> Arabidopsis thaliana

<220>

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 ttcagacctc aaagagttga ctttttgttt gcattaggag ctttgacata agcaaccagg 180  
 gaagaatctc cggttctagt caatgtcttg agctcgtagc ccaaccaaca cctcgaactc 240  
 10 tttctattgt agaaaaaccc taaacatttg caatctctcg tacacttgtc cccacacgca 300  
 ctctccgtcg tcgatgatcc accgttatat tttgtcatga aactatcagc tccttcgacg 360  
 ttgaagtagt gaaatgtctt gggatcgcaa cttgcgagac ttggagattt acatgtctcg 420  
 tcccaaccaa gaagcccttt gtcgctagga caagcgttac actggccttt cttacacaaa 480  
 ccaaacccca aacaatgctc agggatccta cactcgtcgt taccgtcagt gtcggcgctg 540  
 15 gtaaacgcnn tgtatgtcac gtcccaagcc gtggaagtcg ccaacgtact gtaactccaa 600  
 actctgatgt ttccgctctga ttctaaccga ataaaactca acgtcgcgtt gtgtttcggc 660  
 cgtgagagga acgttgaaac gttgaattta gaaccagaat cgacaccttc catgactaga 720  
 ccccacgttg tgtcggaatc ttccacagct tggaaagtca ttgactggaa ttgtgttatc 780  
 ttggtgaaga attcgtattc aaaataagcg attggtttcg gagttttgtt tgcgtgtag 840  
 20 tacaagacta gcttccttggc ttccatcacg agactgtacg gtccgtttgt gttgacagat 900  
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<210> 387

<211> 929

25 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

30 <222> (1)...(929)

<223> n = A,T,C or G

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 tccttagagc ccaaaacggc atcgtttatg cacaacgatg gccgctccgt caacctcctt 180  
 caagcagatg gtacgattcc gatgcctttt catggagtca cctataacat acctgtgatt 240  
 atctggtctc tcgagtcata tcctcgtcat cctccttgcg tctatgtgaa tcccaccgct 300  
 gatatgatca tcaagcgacc tcacgcacat gtcactcctt ctgggtctcg ttctcttccg 360  
 40 taccttcaga attgggtcta ccctagctcc aatctcgtag atctcgtcnn nnatctcagc 420  
 gctgcttttg ctcgatgatcc gcctctttat tctcgacgcc gtccctcagcc accgccaccg 480  
 tctcctccta cggatacga ttctgtctctg tcacgacctc cttcggtgta tcagtcattg 540  
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 gttcaccacc agcagcaatc tgatgatgcy gcggaggttt tcaagagaaa tgcgattaat 660  
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 gcagaggagc tgctgagctt gcaagctggg ctgaagagaa gagaggatga gcttaatata 780  
 ggggttgaaag agatggttga ggagaaagaa acacttgaac aacaattaca gattatctcc 840  
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<210> 388

<211> 929

<212> DNA

<213> Arabidopsis thaliana

55

<220>

5 <221> misc\_feature  
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 <223> n = A,T,C or G

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 acaccaccaa tagctccgcc gtcatagaatc cttctcttcc aggtcaacac aagtcagagc 180  
 tccaaaaatg gagtcatgag attgttttga gacgcatgtg aatcaagatg atctgttagt 240  
 gaagtaccaa tacatctcag atgcgttgat tgctcttgca tacttctcaa tccactcga 300  
 15 gcttatctat ttctgtgcaa agtctgcttt cttcccttac aaatgggtgc ttatgcagtt 360  
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 25 ggttgggaga tattcacctc ctgaggttg 929

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 <211> 929  
 <212> DNA

30 <213> Arabidopsis thaliana

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 tgtatgttca gctagatggc aagtggtgg caaagttcct ggtggagata atgagtatat 180  
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 acttctctgt gtttatgtag gaactgttgc aagattaaac cagttccttc aagtaatggg 360  
 tgatgcagcg aaattctcct taaagcagaa ttcaatgccg ttacctccat ggagatcttt 420  
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 gcttcagttt gctctccagg ttgaacaaga gcccgagaga ttcatagaaga agaagagcgg 600  
 ttttagccgc aggaactaac ccgagataat gagaattcaa ggggctcgtg ctctttaaag 660  
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 45 gttttcgagt gtaatatatt tgccgctgcg tctttttttc tttttaatat ggattcattt 780  
 ggggttacaa taacagccaa ggttaggctt tatacaaaaga agataatata cgaaagggtac 840  
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50 <210> 390  
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 <212> DNA  
 <213> Arabidopsis thaliana

55 <400> 390

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   ggtgttaaga gagctcccaa tatgtgtgcc tctgttgga tccaaggcat cgcttgggct      180
   tttggtggca tgatctttgc tcttgtttac tgtactgctg gaatctcagg aggacatatt      240
   aatccggcgg tgacttttgg tttgttcttg gcgaggaagc tatctttaac cagagctctg      300
10 ttctacatag taatgcagtg ccttgaggct atatgtggtg ctggtgtggt taaagggttt      360
   caaccagggc tgtaccagac gaatggcggg ggagctaattg tgggtggctca tggttacaca      420
   aaggggttcag gtcttgggtg agagattgtt ggaacttttg ttctgggtta cactgttttc      480
   tcagctactg atgctaagag aagtgccaga gactctcatg tccctatctt ggctccgctt      540
   ccaattgggt ttgctgtctt cttgggtgcac ttggctacca tccaattac tgggaactggc      600
15 attaaccggg ccaggagtct cggagctgcc atcatctaca acaaggatca tgcttgggat      660
   gaccattgga tcttctgggt cgggccattc attggtgctg cgcttgctgc tctgtaccat      720
   cagatagtca tcagagctat tcctttcaag tccaagacat aaagtttcct acatattctc      780
   tgatcatcat caagctaaga atatatcaat ctttaattct atatgctttc ttcttggttc      840
   ctatgtcatg tgtgatgatc tctatatgta ccactagagc tttgatcttg taacagtgta      900
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<210> 391

<211> 929

<212> DNA

25 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

<222> (1)...(929)

30 <223> n = A,T,C or G

<400> 391

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35 acaggcccta gaaccatcac caaccaatcc cctaaaccga attcgactct taaccagcgt      180
   aaaccgccct taccgaatct atccgtctcg agaaccggtt caacaaagac agagaaagag      240
   gaagaagaga ggcactacag gggagtgaga cgaagaccgt ggggaaaata cgcggcggag      300
   attagggatc cgaacaaaaa gggttgtagg atctggcttg ggacttacga cactgccgtg      360
   gaagctggaa gagcttatga ccaagcggcg tttcaattac gtggaagaaa agcaatcttg      420
40 aatttccttc tcgatgttag ggttacgtca gaaacttggt ctggggaagg agttatcgga      480
   ttagggaaac gaaagcgaga taagagttct ccgccggaag aggagaaggc ggctaggggt      540
   aaagtggagg aagaagagag taatacgtcg gagacgacgg aggctgaggt tgagccggtg      600
   gtaccattga cgccgtcaag ttggatgggg ttttgggatg tgggagcagg agatgggtatt      660
   ttcagtattc ctccgttatc tccgacgtct cccaactttt ccgttatctc cgtcacttaa      720
45 aacttcggaa aagtcaacgt acgatgacgt tttcacttgc gtcactctca tgatnncatt      780
   tattcttgta taatataaag gtacgggtag tgtgcaaata tcaaataagt agtttaatta      840
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50 <210> 392

<211> 928

<212> DNA

<213> Arabidopsis thaliana

55 <400> 392



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   aacaaaacag agtctcttct ctactagttc ttgggaatgt taactccgac gatttttagcg      180
   ggagtaatac gaagaagatt cccaggctta ccaggcaaag cacctttgat catgacaaca      240
   ttaagctcct tatcaacttt aacaatctta agcttcctaa tctttgtcct cgtccctccc      300
10 attcttccag gcatcttctt ccctttataa actcttcccg gagtagtacc agcaccaatc      360
   gaacoccaaag ctcgatgact cttggaacca tgagtcactc gacctctctt gaaatgatgc      420
   cttttgatgc ctccttgaaa ccctttacca attgtgggtc cagctacatc aacgagatca      480
   ccttctttga atatctcatc gaacacaagc ttctgggttc gttcgaatcc ttcgatgttt      540
   gttaatctga actcttgag atgtctcatt gggattgtac cggctttttg gagatgaccg      600
15 gtttcoggtt tagttagctt tttgtcgcgt acacgacggt aaccgatttg aaccgcgtcg      660
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   actgttactg gaactactgt gccgtcttct tcgaagaaac tcatcatccc gagttttgac      780
   ccattactc cgattccagc ttccatggat gatgaaacca cgaatctggt ttttggatgat      840
   gatttgatga gaagtgaaga ggatttcgcc gggaggaaaag tgggagtga gagtgaagag      900
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<210> 393

<211> 928

<212> DNA

25 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

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30 <223> n = A,T,C or G

<400> 393

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35  tggctgctcg gaaactcttt gaggacattg agaatctgag cnnccattct cctgacacga      180
   gcaagcaatc ggttgacagga tctgaggtta cccttgacgt tgctcttttg gcatttatca      240
   atgtaaacct ccatgtccct gagaatctcc atgagctcat caaccacctg agaatactcc      300
   atgacccgac cagggctctc ctcaaccacc tcctccaatt ctctcctggc agtttctaac      360
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   agatcaacgg gggaggtgat gataggaggg tattggtgta gacggaagaa gaaccaggcg      600
   gaagcagcga cggcgatggt ggggatgatg aagtggccgc ccccgccgaa ttgaggaagg      660
   ggatgtttta caggaggaga aggaggttca gaggaggagg gagaagtgat ggcgaagagg      720
45  gagatagggt tttgaaggct tgaaggctcg taatggtgaa agtgcgggat gatgctgttg      780
   tgatgcactc ggttacagaa atatgctttc actaaactcc ccatttctct ctttctctgt      840
   tgttggttcg acaaatTTTT atgaacccta aacccccaat ttcacggaac ccatttttga      900
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50 <210> 394

<211> 927

<212> DNA

<213> Arabidopsis thaliana

55 <220>

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5 <222> (1)...(927)  
 <223> n = A,T,C or G

<400> 394

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	actggacctg	atgatctcat	ttctaccctc	ctctctaagg	ttgcgaatag	tgatggaggt	180
	gtgacgctaa	gccctgagca	gcacaaggag	gtggcacaag	tgcccgagga	gcttcaaaag	240
	tactgtgtca	aggagcctgt	caaaaatcct	ctcatttttg	gagattggga	agtgggtgtac	300
	tgttctagac	caacctctcc	tggtggaggc	tacagaagcg	tgataggccg	tctcttcttc	360
15	aaaacgaaag	agatgataca	agccatcgat	gctcctgata	tcnnnaggaa	caaagtttcc	420
	attaatgctt	ttggttttct	agacggagag	gtctccttga	cagggaagct	gaaagcggtg	480
	gacagtgaag	gggtgcagg	gatatttgag	cctccggaaa	tcaangttnn	atctttggag	540
	ttcaaatacg	ggttcgaaa	cgaagtgaag	cttcggatca	catacgttga	tgagaaactt	600
	aggttgggat	tggtgatctaa	aggatcattg	ttcgtcttta	gaaggcgtca	ataatatata	660
20	cgtttctccc	tcgtgcatca	accaatgcaa	atcactacag	aaaaaaagga	aacaacatat	720
	ggggctcctgc	gagagtatga	tggtcaatat	ccacaatgct	gtgtacacaa	atgggtgtttt	780
	agatataact	ttgttgtaat	gtaaaacttca	ttttaagagt	gtctcacttc	agatgagttg	840
	ttgaggaagc	tactggtgaa	cttcaacatc	ttttcgcaaa	gaattactat	agcaacaaaag	900
	aaagataaat	gacttagcag	ccttttat				927

<210> 395

<211> 927

<212> DNA

<213> Arabidopsis thaliana

30

<400> 395

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	gaaactaccg	tcgaggacga	cgaagactat	tacgagctct	gactggagtt	ggagttatag	180
35	gtctccggga	agattggcgt	ctgcgtctac	gtctacgtct	gcgtctacgt	ctacgtctgc	240
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	cattttatagt	tgctgattta	tgacgtttct	tggaacatta	ggatctttgc	tcggatcggt	360
	tctctgtttc	atcaagggat	gtatgtatgt	tgtagactcg	tttttgacgt	attcggtgaa	420
	tcgtgggaaa	gtgatattcc	ttttggttga	ggccatagat	atatactctc	taggaactgt	480
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	gtcgcgcaca	cacgatattg	tttccaatag	gtcgcgcctc	tttgccatgt	tcaccttaaa	600
	ggagcgacct	caatggttag	aggtgaaatc	ggtaagcgag	ctgaaaacaa	agttgggaca	660
	tgtaatagtg	atgctactat	tgattggttt	gtttgacaag	agcaagagag	tagtcataac	720
	ttctgtcacg	gatttgctat	gtatctctgt	ttctatcttt	ttttcttctg	cttgtctctt	780
45	cttgctctct	aggctcaatg	gttcacactg	aggagttaat	gggtgtgtcc	caaaacaaaa	840
	gaaactttgt	atgtgtataa	tgtttttagca	acgtccatc	ttctcttttt	gttcattata	900
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<210> 396

<211> 927

<212> DNA

<213> Arabidopsis thaliana

50

<400> 396

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5  tgcacctaag gtcttgctca caacatgtcg tttcaattcc actagaggac ctgctttaat 180
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   gaagaagatt gtagaatacg caacgaagaa agattttaca tctcttattg ttgttcatac 300
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   aagcaagagt gataaaggaa aagaagagac aataaaacct cgtcttcagg aatgcggtcc 660
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   tctgctgtct tccgagtttc accaagtttt gtgtttattt tgcattttcg aattttccct 840
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20 <210> 397
   <211> 927
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   <213> Arabidopsis thaliana

25 <400> 397
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   aacccgagaa cctcaaatag tcgaataaga taccaagtta tgtctatctg ccaccactcc 180
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   ccccaaatat ggcatgccga gttcacgagc catgtcacgt ggtacccaat cacacctcca 360
   acgccccgcg cgcagtgaag gtaaggtaaa ccaccataga gatagaggac agtccaaaac 420
   attaagacgt ggaaaccaat tgtcattcgt agaaaccaat agaaccattg ctgcttcaag 480
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35 cacacatgac tgaaccaaaa tcttctgata gggctatgtg ggtcacggtc agaattctgtg 600
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   aaccgtaatg cttcccattt gtagttaaat ggtgccaaaga gacacaaaaa gtgcacattg 840
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   <220>
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   caatcatggg acacgaaaca atgacgccgg caacaacaac gtcctgtgtc acgtacggaa 180

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	gagtcctttt	cctcctcaac	aaacctggat	cgggctatca	cgtcaacggc	gagcttttacg	360
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20 <211> 926

<212> DNA

<213> Arabidopsis thaliana

<400> 399

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<212> DNA

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<223> n = A,T,C or G

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<213> Arabidopsis thaliana

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15 <211> 923

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      gaagccctct catctcttcc tccattctca tcttcatttc ataaaactct ctctgccctc    180  
      tctgcattgc ctctaactcc tcgtacctcc tcctccttct ctccctgtgca tcctccatac    240  
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      cctctgcttg cttcattctc acaatgctct ctagtctctc gaaacgagggt tcctttgggtg    420  
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	gatgttgaga	tgatgcaagt	ttaggtgtgg	agttagtttt	gagatagcta	taggtggatt	720
20	ctcaaatagc	tgacacttag	tctctctact	tccataatgt	acgtctcttc	tataccaaaa	780
	attctcaccc	ccaaagtttc	tttccaacgc	ttttcttcac	ctcatcattt	tttcttacgt	840
	ttcgagtacc	acctatttca	acaacattaa	atattttcta	taatttgact	atcaattttt	900
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25 <210> 424

<211> 919

<212> DNA

<213> Arabidopsis thaliana

30 <400> 424

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	ggccggagtt	ttcaaaacgg	ttacgtttct	tgttttgggt	ttcgctgccg	ttgttgtctt	180
	cgcggaggac	tacgatgttg	gtgatgatac	ggaatggacg	agacctatgg	accccgagtt	240
35	ctatactact	tgggctaccg	gtaaaacttt	ccgtgtaggc	gacgagctcg	aatttgattt	300
	cgctgctggg	aggcatgatg	tggcagttgt	atcagaagct	gcatttgaaa	actgtgagaa	360
	agagaaaccc	attagccaca	tgaccgttcc	tccgggtcaa	attatgctaa	acaccactgg	420
	accacaatac	tttatctgca	ccgtcgggtga	ccattgtcgt	tttgggtcaa	aactttccat	480
	cactgtagtt	gctgctgggt	caactggagg	tgctactcct	ggtgccgggt	ctaccccagc	540
40	acctggatca	accccaagta	ctggagggaac	cactcctccc	actgcgggtg	ggaccacaac	600
	accttcaggc	tctagcggaa	ccactactcc	agctggaaat	gccgcttcct	cattaggtgg	660
	tgctactttt	ctggctcgctt	ttgtttctgc	tgttgttgct	ctcttttgag	tcacactcga	720
	aacctagtta	tgtattttgt	ttaccttact	ctccttattt	aaatagtcac	gtatttgatt	780
	atgtgtgaga	ataaggactt	gttttcaagt	cattataaac	gtcttatact	tgtgattagt	840
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<211> 918

50 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

55 <222> (1)...(918)

<223> n = A,T,C or G



5

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ctgcatttag aaagtattag gctgttttagc ctgagagatc atctggacaa cctctctcat      180
10 ggtcgggtctc tcaacactat gttcttgcac acatagcatt gccacaaaga acagttccat      240
ggcctctgct aatggaatat tgctcaatct ctggtcaatg atcttcacca caccttgtct      300
gttacagttt gtttggatct ttgaccattg cacaatgtct atcccttctt ccccaaaatt      360
atctactggt tttcgaccgg taatcagctc caataacact actccgaagc tgtacacatc      420
gctcttctcg tctattctca gtgtatatgc atattctgga gcgatgtagc cgtacgagcc      480
15 agcgatcgag gacatgcact cggaagctcc attgtcttgc atcataaaact tagcaagccc      540
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acggtggatt ataagtggcg agcaatcatg gtgaagataa cacaaccctt tagccgcttc      660
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ttctccgagg ctaccattag gcatatactc gtaaacagg agattcacgt ctttgtttga      780
20 acaaaaagcg agcaatctca ctatgtttct gtgtctgatt ctacctaag tctgaatctc      840
tgcggtctaaa cgttgtcat gagatgatcc tttggttatg gttaagagct tcttgactgc      900
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25

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<210> 426
<211> 918
<212> DNA
<213> Arabidopsis thaliana

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30

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<220>
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<222> (1)...(918)
<223> n = A,T,C or G

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35

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tgaacaatga gcatcactact aaaaagtgtg aaaactatgg tttctgagtt ttgaaaatgc      180
tacaagaata tcataagatg agggaggttc atatcactta agtaactgtt gcagttatct      240
cacaaaagtg ttgtcgtcgt cgcgcggttt tagcggatta ttttaaaata caagagacgc      300
40 tgattcatca gtggaaaaca aatcctccgc ccgagtgttc aacttcttga ggagggggta      360
gagatgaaac ccaatctgat gcatgtgttg gaagaagccc caaagtgtta agcttccaga      420
cacccaaagc tagccctcca aggtttaggg caaggaacac taatttcggc ataagtagtt      480
ccactttgtt atccttgaat ggctcaaaaa tctttccaac actctgaaga gcaactgatg      540
gctgccaaag agcagagaaa gtaataccaa tactaaaaag atgaactgtg tttccagcca      600
45 tccacatcat gaaaccatc atcatcaa atcttaaagg agattgcgt acttcccacg      660
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cctgtnnnnn agaggcacga gagaagccag gtggatcgag gatgtcacgg gaagatggaa      780
cagtagattg atcggagaat tcgacggccc atctccgacc agtaccatc actgctttgc      840
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50 acctagatcg gattttatc                                     918

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55

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<210> 427
<211> 917
<212> DNA
<213> Arabidopsis thaliana

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5  <220>
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    <222> (1)...(917)
    <223> n = A,T,C or G

10 <400> 427
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    ggacgagcct accaagtggg ctttatacag agccgtcatt gccgagttcg tagccactct      180
    cctcttcttg tacatcaccg ttttaactgt catcggttac aagattcagt ccgacacaaa      240
15 agccgggtgga gttgactgcg gcggcgtcgg aatccttggc atcgcggtgg cttttggtgg      300
    catgatcttc atccttgtct actgcaccgc cggatatctca ggtggtcaca taaaccctgc      360
    ggtgacgttt ggtttgttct tagcccgaa ggtatcgctg attagggcgg tgctttacat      420
    ggtggctcag tgtttgggtg ctatttgtgg agttggtttc gtcaaagcct ttcaaagctc      480
    ttactatgat cgttacggtg gaggagccaa ctctctagca gacggctaca acacaggcac      540
20 cggactagcc gcagagatca ttggaacatt cgttctcgtc nncacagtct tctccgctac      600
    tgatcccaaa cgtaacgcta gagactccca cgttccggtt ttggnnnac ttccgattgg      660
    gtttgcgntg tttatggtac atttggccac tattccgata accggaaccg gcatcaaccc      720
    ggctaggagt ttcggaagct ccgtaatcta taacaagagc aagccatggg atgaccactg      780
    gatattctgg gtgggaccat tcattnnagc tgcgatagct gcattttatc accaatttgt      840
25 cctaagggct tcaggttnca agtcacttgg atccttcaga agtgcagcca acgtttgagt      900
    ttttgccaca caaaaaa
                                     917

    <210> 428
    <211> 917
30 <212> DNA
    <213> Arabidopsis thaliana

    <220>
    <221> misc_feature
35 <222> (1)...(917)
    <223> n = A,T,C or G

    <400> 428
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40 caatgagaga cggatcttgc gttcccggac aaagcaagta gaaggaagag atgcacctgt      120
    ttctgtttct attgttccgg gaacagagga gggttatact ggaaaccctc cgtctagaac      180
    cggaatcttg gtgatactgg atagaatatc caagtcctct tttgttggcg catggagaat      240
    ttatttcaat caagaagttg tcctccccgg ggtttctcta gctctcttgt tcttcaccgt      300
    cctcagcttt ggaacattga tgacggctac attgcagtgg gaaggatata ctacatatat      360
45 catcggtata ggcaggggaa taagtgaac ggttggaact gcggtacat tagtgatatc      420
    gctaatacaa tcgcgtctct caactctgag aaccggcctc tggtccttct ggtctcagtg      480
    gagctgcctt ttggtctgcg ttggatcgat ttgggttaaa aaggataaaa tagcatctta      540
    catgctaata gctggagttg ctgcttcaag gcttggcttg tggatgtttg atcnnnccgt      600
    catccaacaa atgcaggatc ttgttncaga atccgaccgt tgtgtggttg gaggtgttca      660
50 gaactcactg caatcggtc tcgacttgat ggcatactct ttaggtatca ttgtctccaa      720
    tccaaaggat ttttggatat tgacgttgat ctcattctcc acagtatcgt tggcaggaat      780
    gctctataca attcaactct accgcataag aaaccatatt tttcatcttg agaagattct      840
    tttgttgaac aaatgtttat tcaagttgct cccttctcgt ggaaacgtgt aattcataat      900
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                                     917

55 <210> 429

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5 <211> 917  
 <212> DNA  
 <213> Arabidopsis thaliana

<400> 429

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	ctcctaaata	cgaaaacaaa	agcccaggag	atatattttc	actccggtat	ctagcatata	120
	gccggcgaga	aacaatgatt	gcaaggattt	ttcttggacg	gcaccaagag	ttttagttaa	180
	ggaaataaaa	ttgattagta	acagaacaaa	aaagaccgag	acaacgactc	actctgcttc	240
	ttctaattct	ctagctcgat	gattttgacc	acggacgcat	ctcccacttt	ctgacagacc	300
15	acaactctgt	catgtgactt	gatcactccg	gcttgcttcc	catggtctag	agccacttta	360
	agaaccgact	catttggttg	acttggtgat	tccgcagggt	gacgaggatc	agcaagcatg	420
	gggaaaagac	ctctgacaat	aagtgactgc	cttgccctcaa	aggctccgct	aaagctccac	480
	ttcagctgat	ttgtcgtaag	tcgggggaatg	acaacagaga	gaacgggcat	agttggacgg	540
	tatttggcaa	tcaaccttgc	tgctctgcc	gacgagggtga	agcatataat	tacggatgcc	600
20	ttaaccttga	ttgtgccc	tacagcagaa	gaagcaatag	attccaagtg	agtcattggt	660
	tctccaacat	acttgacagt	cttcttaaag	aacaaatctt	ggttgaatac	tttctctgcc	720
	tcacaacaga	ttctaccaac	agttgatatg	gtttcaacag	ggtacaatcc	acgaagagtc	780
	tcagcaccaa	gaagaattgc	atcacttcca	tctaaaacag	cattagcaac	atcagttgcc	840
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25	ggctttccag	ccatggtt					917

<210> 430  
 <211> 916  
 <212> DNA  
 30 <213> Arabidopsis thaliana

<220>  
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 <222> (1)...(916)  
 35 <223> n = A,T,C or G

<400> 430

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	ttgttacact	aaaagaattc	attttgaaga	atacaaaaac	aagcttcgta	ggttcttgtc	120
	taaaatcagt	cattgaaaat	cagaagacga	tgaagatggt	agatcaggat	cttcaaactt	180
	attaaacctt	ttccgagtcg	ctgcatcggt	gctaattgcta	atcccatgct	gctttctacc	240
	atagcagtc	tcgtttatgt	aatcttcata	ctcatcatca	acaacattca	catccatttt	300
	catgttcagt	tcttcttctt	cttctctctt	ttcttcgtat	tcatcatcac	tatgtaagct	360
	aaattcccc	ctacctacta	atttacttga	ttcgccgcgg	ccatcaaaa	catcaatcgg	420
45	agccatgaca	tcatcatcat	catagtcctc	atactgaaac	gatctcccc	agctgctagc	480
	ttctccgtca	tcgtcttgca	gttcaggggt	ttcgatccaa	tcgtcatcgt	tatcannaag	540
	actggttttg	gcggttacag	caacttcctt	aacccgacgt	cctcctccta	cttcattaca	600
	tataccgagt	gttccttgcg	ttggtctctt	tcggcctttg	gtgccactac	gccgccatt	660
	ctttctaccc	ccacgtgggt	gtgctctcgg	tctcaacatg	gtttcaccat	ttgagtttgc	720
50	tgcacctcgt	ggtgggttaa	cagaaaactgc	cggtttcttg	ccattgccac	gggcacgagg	780
	ccggccacgt	cctcgtgggt	gtcgacctcc	tctcccagag	ctagacacac	cacctaaacc	840
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55 <210> 431  
 <211> 916

5 <212> DNA  
<213> Arabidopsis thaliana

<220>

<221> misc\_feature

10 <222> (1)...(916)

<223> n = A,T,C or G

<400> 431

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	caaaacacca	aacaaaaaac	agagaaagtg	aaagcaagaa	cataaacgat	gatataaaaa	180
	ctacgatcct	cagcctcttt	cttcagtact	tgtaatcctt	aacgtgaagg	ctctcagctg	240
	caccttcacc	gagcttagca	tcacccttgt	aagcaccaag	tggtgcttca	gagttagctt	300
	tgcattctgac	caagaacgct	tcttgagcct	tcttcacatt	ctctctttt	cctccccaag	360
20	tcttcaaagt	gctctgctgc	aacgcccttc	caaaggagaa	agacaacgac	caaggcttct	420
	ttgtcttcaa	ctgggttcac	gcgttaaggt	ttcttgtcgc	ctcttcctcg	ctctgtccac	480
	cagacaagaa	cactatggct	ggaacagcag	ctggaactgt	cctctgaaga	gcacggacag	540
	tgtgctcagc	aatcacctct	ggtgcaacct	tcgcactctc	tgatcctgga	gtaaccatgt	600
	taggtttcaa	gagtgttctt	tctagcaaga	catggtgatc	actcagagcc	ttgtagcaag	660
25	ctgcaagaac	acgctctgtc	accgnngcac	acttctgaat	gtcatgagag	ccatcaacaa	720
	gaatctcagg	ctccacaatc	ggcacaagac	cgttctcctg	acaaatgaca	gcatacctag	780
	ccaatccata	agcgttctca	tggatagcta	actgagatgg	ctcattaaca	ccaatcttaa	840
	gaaccgcacg	ccacttggcg	aaacgagcac	cagcctcgta	gtatttcttg	caacggtcac	900
	caagaccatc	aagacc					916

30

<210> 432

<211> 916

<212> DNA

<213> Arabidopsis thaliana

35

<400> 432

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	atcaaaccga	atcttctata	tacacataag	ctgtgaaaga	tcgagagatg	gtagaattaa	180
	aaagacgatt	ttaacctcat	caaatcggtg	gaggagctga	gccgtaggag	gagagaagct	240
	gaactaaaga	gttcatggct	ctcacttgca	tctccagagc	ctgaatataa	tcagttgctt	300
	cttctagaat	caccggtagc	gattgtttac	cgcaaccggg	aactaaccgg	cctagaacac	360
	gtactttccg	gttaacatcc	ggtatactct	tcttattcaa	tctcaacacc	gacactctcc	420
	gttttctcga	tctgttgctg	ctgctactaa	ccaccgtagt	catggccgga	atcgccatcg	480
45	tagctcgagg	acgtctctgt	ttacgaaatt	tcagtttgat	ccgattagct	aagatcgctc	540
	tgctccagag	tgttcttccc	cgagcggaaa	cggcaagagc	tcgatcggcg	gcttcacgga	600
	cggcctttcc	tcgtttctga	gccgttgagg	atgatgatgt	tgaggcggaa	gagttgaggc	660
	ggacttgttg	gagcgtttgg	aacagtttgg	ctgagtagat	ccgttggtgc	ttctccgac	720
	gccatcgogc	gtgaatctca	cggagacggg	aagatgcgct	tgaacgagac	gatgcggcgg	780
50	atgaagcaga	ggatctcttc	tttctccgaa	cgagatctga	agtagtactc	gtcggcgggt	840
	caatatctga	gatcagagac	gccataacca	aataattggc	tctgatctcc	gcagtcgtat	900
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55

<210> 433

<211> 916

<212> DNA

5 <213> Arabidopsis thaliana

<400> 433

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10	aggattgaca	acgcaggaag	gggaagacag	gattgtgata	tttggcccca	acaagctcga	180
	agagaagaag	gaaagcaaaa	ttctgaagtt	tctgggggtc	atgtggaatc	cgctttcatg	240
	ggttatggaa	gctgcagctc	tcatggccat	tgttttggct	aatggtgata	atcgacctcc	300
	ggattggcaa	gattttgttg	gtattatctg	tctgcttggt	atcaactcca	caatcagttt	360
	cattgaagaa	aacaacgccc	gaaatgctgc	agctgctctc	atggctggtc	ttgctcctaa	420
15	aaccaaggtt	cttagggatg	gaaaatggag	tgaacaagag	gctgctatcc	ttgtcccagg	480
	tgatattggt	agcattaaac	ttggagacat	tatcccagcc	gatgcccgtc	ttcttgaagg	540
	agatccttta	aaggttgatc	agtctgctct	aactggagag	tcccttcctg	tgaccaagca	600
	ccctgggtcaa	gaagttttct	ctggttcaac	ttgtaaacia	ggagaaatcg	aagcggttgt	660
	tatagccact	ggagttcaca	ccttcttttg	taaagctgct	caccttggtg	acagcactaa	720
20	ccaagttggg	cacttccaga	aagttcttac	atccattgga	aacttctgta	tctgttctat	780
	tgctattggt	atagcgattg	aaatagtcgt	catgtaccct	atccaacacc	gaaagtacag	840
	agatggaatt	gacaatctct	tggtcctctt	gatcggtggg	atccccattg	ctatgcccac	900
	ggtcttgtct	gtgact					916

25 <210> 434

<211> 915

<212> DNA

<213> Arabidopsis thaliana

30 <400> 434

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	aataggcagc	tatgttcac	atctctttcc	ttttccttta	gcatcaaagt	gatgagactt	180
	tagttttctc	ttccgcacta	tcgcgcctgt	gctgccacca	cctccttccc	tgaaaggcat	240
35	tcccattaga	gccaatagtt	tctgtccttc	ttgatcgctt	ttagccgttg	tgctgatgca	300
	tacatccatt	cctctcgttt	ttccaacggc	atcaaacctg	atttcaggga	atacaccttg	360
	gtctttcaca	ccaatactgt	agttttccgt	cccatcaaag	ctactgggac	tcacaccttg	420
	gaaatctcga	gttctcggaa	gggctaagtt	gataagacga	tccaagaagg	agtacattac	480
	atctcctctg	agagtgcag	caatcccaag	agggtgatct	tccttgatct	tgaaagtagc	540
40	aatggaagct	ctagctcgtg	tcttaatagg	tttctgccct	gtgataagcg	cgatatcctt	600
	catcgcagcc	tccaaaccct	tgtcgttctg	cgccgcacat	ccaataccac	aattcactac	660
	aatcttctgt	acctttggaa	cctggtgaat	attaacgtac	ttgaactcct	ctttgagcgc	720
	agggataatc	ctctcgaggt	aagcggtttt	gaggcggttg	gttttctcgg	cttcagattt	780
	ctcgaccagt	acagttccag	acgccgagac	tttcaccacg	tttctgagcg	gaggagagag	840
45	cattcgtgcg	gaggatggag	ccgctaattg	tgagaaacgt	ccgtgaaacg	aagaagcgga	900
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<210> 435

<211> 915

50 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

55 <222> (1)...(915)

<223> n = A,T,C or G

5

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	gcgaccacga	ccagacatcc	aaggcacagg	gctggatgct	cttgcacgtg	gtgcattcag	180
10	ccaccaagtg	ggaaaggtag	gcacaagcct	acatgtggct	gcactgtgtg	tagcacctgt	240
	aagagaaggt	tcaagacgct	tatgatgagg	aggaagaaga	agcagttgga	gcgcgatgta	300
	acagcagcag	aagataagaa	gaagaaggac	atggaactgg	ctgagtctga	taagagtaag	360
	gaggagaagg	aagtgaacac	agcgagaata	gacctgaaca	gtgatccata	caataaagaa	420
	gatgttgaag	ctggttgcgg	ggagaaagaa	gagagtcgaa	aaagagcaat	aggacagtgt	480
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	ggtaagaatg	ttcgtgaaga	gccgagagtt	tcaagctgat	atggaaggaa	aaagggaaaag	600
	ggtaaannc	aaagtcatag	ccagttttat	taatattgctg	agaccaagag	taggagaaga	660
	agaagagaaa	gagagagaga	gagagagaga	gagaagtaca	gttttgtgtt	tgattctgtc	720
	atagttgtag	gaaaaataag	tttctggttc	taaacagcga	caatgtccca	tcttttgnnn	780
20	tttgtttttg	tttttgtatt	tttatgggat	cgtgttgagt	ttggggttta	tagtatgtct	840
	ccattaatct	aggttttgtt	gtagaaggca	aatggagctt	tgtgcttggt	gatgaaacag	900
	ttgagttgat	ttttt					915

<210> 436

25 <211> 915

<212> DNA

<213> Arabidopsis thaliana

<220>

30 <221> misc\_feature

<222> (1)...(915)

<223> n = A,T,C or G

<400> 436

35	tttttttttt	tttttttttt	tttttttgag	aggaacaaga	aaggttatgt	tcatatcatt	60
	acaagaatca	catcaagact	tgaaaattta	agctccaggt	gcaaacttag	ttgcgaaagc	120
	ccacgcattg	ttagcaacag	ggttgtcaag	atgggtcaagg	agattctcca	aaggaccttt	180
	tccagtaaca	atggcttgaa	caaagaagcc	aaacatagag	aacatagcca	atcttccgtt	240
	cttgatctct	ttcaccttaa	gctcagcaaa	agtaactgga	tcatcagcga	gacccaacgg	300
40	gtcaaagtat	tgcccaccgg	ggtacaagtc	gttgcccttcg	ccaacaccat	caagaccgtt	360
	gatgcggaaa	ccttcaacca	aacccatgag	gatgacttgg	aagccaagga	cggctaaaat	420
	gctctgagca	tggactaggt	ttgggttgcc	taagtagtcc	aaaccgcctt	cggagaagat	480
	ttgtgaaccg	gctttgaacc	agactggttc	tttgaagtcc	acacggaccc	acttttgaag	540
	aacttcaggg	gttatgcaac	caaaagctcc	caacattgcc	catctcccat	ggatcacctc	600
45	aagagctctg	tttttggcaa	gggcttcagg	gnnngcggat	aaaccngcgg	tgtcccaacc	660
	ataatcgcca	gggaattctc	cggtgaggta	agacggagtt	tgaacggaaa	agggtcctaa	720
	gtacttcact	ctgtcaggtc	cataccaaaag	atcatttccc	atagtgtact	tgggagatcc	780
	gagagagaca	acatcacgaa	gggggttaaa	gcttgaggct	ttagtctggc	caaggaatgt	840
	tgttggggta	agaacactgc	ttgagctcgt	gaatgttgat	gccattgtct	ctctcggctt	900
50	gagcttttct	ttttt					915

<210> 437

<211> 914

<212> DNA

55 <213> Arabidopsis thaliana

5 <400> 437  
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accatggata atgtcaaact tgtaagaat ggtgttttga gattgccacc tggattcaga 120  
ttccatccta ctgatgaaga acttggtggtt caatacctta agaggaaaagt ttgttcttct 180  
cctttgccag cttcaatcat ccctgagttt gatgtttgca gagctgatcc ttgggattta 240  
10 cctggcaatt tggagaaaga gaggtacttc tttagcaciaa gggaaagctaa atacccaaat 300  
gggaaccggg ctaaccgggc aactgggtct gggtattgga aagctaccgg tattgataaa 360  
cgggttgtga cctctagagg aaatcaaate gttggtttga agaaaactct tgtcttctac 420  
aaaggcaaac cacctcatgg ctcaagaacc gattggatca tgcacgaata tcgcctctct 480  
tcttctctct cgagttctat ggggtccact cagaactggg tactctgtcg tatcttcttg 540  
15 aagaaaagag ccggttaacaa gaacgacgac gacgacggag atagccgtaa tcttagacat 600  
aataataata acaattcgag tgaccaaatt gagataatta caacagacca aacagatgat 660  
aaaacaaaac caatcttctt tgatttcatg agaaaagaaa gaacaacaga tttgaacctt 720  
ttgccgagct ctcttctctc cgatcatgct tcaagtggag tcacgacgga gatcttctct 780  
tcttccgatg aagagaccag tagttgcaat agtttcagat gaaatcttta atttaatttt 840  
20 aatgttgact atcttaataa gttattatag ttttatatta atacgactct ctttcctttt 900  
taaaaaaaaaaaaa 914

<210> 438

<211> 914

25 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

30 <222> (1)...(914)

<223> n = A,T,C or G

<400> 438

35 acaatggctc tctctctccc tgccttcgcc ggaaaggctg tgaacctttc ccccgcgcca 60  
tctgaagctc tcggaagcgg ccgtgtgaca atgaggaaga ctgttgccaa gccaaagggt 120  
ccatcaggca gccatggta cggatccgac cgagtcaagt acttgggtcc attctctggc 180  
gagtcaccga gctaccttac cggagagttc cccggagact acggatggga caccgctgga 240  
ctttcagctg atcccagac attcgcaagg aaccgtgagc tagaagttat ccacagcagg 300  
tgggctatgc tcggagccct aggctgcgtc ttccctgagc ttttggctag gaacggagtc 360  
40 aagttcggag aggcggtttg gttcaaggcc ggttcacaga tcttttagcga tggaggactc 420  
gattacttgg gaaaccctag cttgggtccac gctcagagca ttttggccat ttgggacct 480  
caagttatct tgatgggagc tgttgaaggc tacagagtcg caggaaatgg gccgttgga 540  
gaggccgagg acttgcttta ccccggtggc agcttcgacc cattgggtct tgctaccgac 600  
ccagaggctt tcgcgagatt gaaggtgaag gagctcaaga acggaagatt ggctatgttc 660  
45 tctatgtttg gattcttcgt tcaagccatt gtcactggta agggaccgat agagaacctt 720  
gctgaccatt tggccgatcc agtcaacaac aacgcatggg ccttcgcaac caactttgtt 780  
cccggaaagt gagccaagtt ttatcagttt gtattttgct tnnctttcag tcttttgaat 840  
tcgagtgaga gacatgagga gaaagagaag gttgtatgtg atgggttgag acttttcagat 900  
gtaaatttgc aaga 914

50

<210> 439

<211> 914

<212> DNA

<213> Arabidopsis thaliana

55

<400> 439

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5  gtttcacttc tcatagggtta ttcttacagg aagtttcaac atctttctgt aaataagaaa      60
   ctcatagaca tcgtgcaaca cagataagaa gaaacaaaa accgatatga agagacaaaa      120
   catcctaata ataaagtaaa caaataaatt tgttgggtact atagtcacaa acgggttactc      180
   ttcaacttgg taccaggaag tgtaactagg tgtttcagtg tgcaggcatt atttcttacg      240
   gaatgctcat cactactata gcttttaggt ttatctggca ggagggtggag ggccaagggg      300
10  ttttgccatg ccaacccaag caacaatccc acaagcgaga attatccaac cgcatacatc      360
   ataagtgaat tcagtgttcc tcttcttctt cttactactc tggctaacat tagatgaagc      420
   cattcctcct ccacctcctc ctctcctcct acctagtatt tgctgtccca ttccttgatt      480
   cataaactgc atatgcagtt ccggggcctt tagtgaggaa tccaaggact tgcgatatgt      540
   gtcattacct ggatcctcat tttctgctct ctggaaatat tcagtggctt tatcaaagtg      600
15  ctcttttgc tcttcaggat cgtgaacata aaacgcgtgg gcggtgtacg cgttggcaat      660
   acaccaaaag gcctgatgct tccctggatt tattgtcaag gcctcttcca acttggaaat      720
   agcatcattt aacatgagct tagcttcagg aataggctgg aactgtgaaa gttcaagtaa      780
   agctccaccc catttcagca gattctcgga atcaagagga tcgttcttgt actgagcctc      840
   agaatttttg cgagcatgtt cgaacatgat aaacctttca aagtcggcgg tagagaactc      900
20  catcttcaga ttca                                     914

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<210> 440

<211> 914

<212> DNA

25 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

<222> (1)...(914)

30 <223> n = A,T,C or G

<400> 440

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   ttaaaagaga tacatcttag aggacagaaa gaaacaattt ttgnmntcaa taatacatta      120
35  ttgaaacgat ttttgggat caataatata ttaatgatta gctaataagg tatgtgacgt      180
   gcatagcaca gtttcaaaca catttaattc aacaatggtt gtcgctgctc agcgactggg      240
   acatgtggac ggtcaatgag gacattctcg tagatgaaac cggcgagtcc accaccgatc      300
   aacggtccaa cccaatatac ccaatggtca gtccagtttc cagagaccaa agcgggacca      360
   aaagaccggg cgggggttcat ggaggcgcca gaaaaggcac ctcttgcaag gatgttggct      420
40  ccaacgacaa atcctgtgag aagtgggccc aacctatcaa gggatccttt ctccgatcc      480
   acaatagtgg cgtagacagt gaagagaagt gaaaatgtta agatgatctc ccatatgatc      540
   ccttgcggtg aactcactcc acttgccaat gtgtgaaccg gagttcccat tcctccggtg      600
   aggtaactga ggaggaagca tgctgcggag gaggccaaca attgatcaat ccaataaagg      660
   aatgcacgga atacgctgat gtggccaccc aagagtagac cgaggggtgac ggcgggggtt      720
45  aggtggccac cggagatatg gccnnngat atcattaccg ccacnnngaa tgcgatgagc      780
   accgcgaccg cgaaaagtcc caccaatgtg tttccgacta aactgtcagt ggccatggca      840
   gatccaacac cagcgaagac aaagagaaag gtatgatga attcgacaat gagggcttta      900
   atgcagtccg gttt                                     914

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50 <210> 441

<211> 913

<212> DNA

<213> Arabidopsis thaliana

55 <220>

<221> misc\_feature



5 <222> (1)...(913)  
 <223> n = A,T,C or G

<400> 441  
 ccacgcgtcc gagaaactga aggagttgga gaagaagatg aaactagctg gatacaaaacc 60  
 10 ggaactagag tttgctttac acaatgtaga ggaagagcag aaggagaagc tattgttatg 120  
 gcacagcgag aagtttagctg ttgcctttgg ttgcataaaa ctccctgaag gttcaccaat 180  
 acaagtgttc aagaatttga gaatctgtgg tgattgtcat aaagcaatca aattttatttc 240  
 ggagatagag aaacgagaga tcattgtaag agacaccaca aggtttcacc atttcaaaga 300  
 tgggtcttgc tcttgtggcg attactgggtg aaaagagaag agctttgact ctctcattgg 360  
 15 tcaaacctga ctgtatttat atgcgttatt gtgtggtaaa gtttcgacct ttgactttac 420  
 aagttggcgt taagaagaga gatgcgtaga tcagcgagtg gttctagatt tttggatcat 480  
 tttccggcga cttcaaggtc tccgcctcga tctcagagtg ttacagctat ggaagatgat 540  
 gtggagctgc ttttgccctag gtacgatccg aattcacaag cggggaagag agagaagtca 600  
 agattcagat ttgcagaaaa cgnncnnncat ttgattcctc tcattcttct tctctgtgtt 660  
 20 nnnatnctct ggcctctctc ttattcagca gcgttaagga gttgagttca agaagcaaca 720  
 tgttgtcttg tctccatgga aactcatcat attcagtttt gggaaaggaa acaattattt 780  
 taccgccggt gattatgtgc cgcaaaccat acgtaactct tgtaattttt ggttctgtag 840  
 acacataaaa ggatctctcg ttttcatgaa atgtatgttt aatagttcac tataaaaaaa 900  
 aaaaaaaaaa aaa 913

25 <210> 442  
 <211> 913  
 <212> DNA  
 <213> Arabidopsis thaliana

30 <400> 442  
 ccatgggtcg tgtcatcaga gctcaacgta aggggtgcggg ttccgtcttc aaatcccaca 60  
 ctcaccaccg caaagggtccg gctaagtccg gtagectcga tttcggcgag agaaatgggt 120  
 acctcaaggg cgtcgtgacg gagatcatcc acgatcctgg tcgtgggtgct cctcttgctc 180  
 35 gtgtcacttt ccgtcatcct ttccgtttca agaaacaaaa ggagctcttc gtcgccgccg 240  
 aaggatgta caccggtcag ttcttgtact gcggtaagaa agctactctc gtcgttggaa 300  
 atgttctccc tcttagatct attcctgaag gagctgttgt ctgcaacgct gagcatcacg 360  
 tcggtgatcg tgggtgcctc gctagagctt ctgggtgatta cgccattggt atcgtccaca 420  
 accctgacag cgacactact aggattaagt tgccatcggg ttcgaagaag attgtcccaa 480  
 40 gtggatgcag ggctatgatt ggacaagttg ctggaggtgg aagaactgag aagccgatgc 540  
 tcaaggcagg aaacgcgtac cacaagtacc gtgtgaagag gaactcatgg cctaaggttc 600  
 gtgggtgtggc tatgaatcca gtggagcatc ctcattggagg aggttaacat cagcacattg 660  
 gtcacgccag tactgttagg cgtgatgcac ctcctggaca gaaggttggt cttattgctg 720  
 caaggaggac tggctgtctc agagggtcaag ctgctgcttc agctgccaa gacagactaga 780  
 45 gttaaaagag ataaactttt tttctcttgt tttctatgtt tcaagttttg ttgtctgtgt 840  
 ttccttttga acctcattct gaaatcctaa aagattttta tgataaacct ttctctcttc 900  
 tcgaaaagct tat 913

50 <210> 443  
 <211> 912  
 <212> DNA  
 <213> Arabidopsis thaliana

<220>  
 55 <221> misc\_feature  
 <222> (1)...(912)

5 <223> n = A,T,C or G

<400> 443

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acgaagtctt gcaaaagtga ttggaacagc aataactgtg ggaggagcaa tggttatgac      60
gttggtacaaa ggtccagcca ttgagctctt taagactgct catagctctt tacacggcgg      120
10 ctccctcgggc acctcctccg agaccactga tcagaattgg gttaccggaa ctctagcggg      180
tatgggtagt atcaccactt gggcagggtt cttcattcta caatcgttca cggtgaaaaa      240
atatccggct gagctttcgc tagtgatgtg gatttgtgcc atgggaacgg tcttaaacac      300
catcgcttcg ctcataatgg tgcgcgacgt aagcgcacgg aaagtcggta tggactcggg      360
cacacttgcg gctgtttact ccggagtggg ttgttcgggt atggcgtatt acatacaaag      420
15 cattgtgatt agggaacgag gtccgggttt tacgacatcg tttagtccta tgtgcatgat      480
catcactgct ttccctcggc gtgttagttt ggctgaaaag attcaccttg gaagtataat      540
cggnnccgann nttatcgtct tcgggctata tagcgttgtg tgggggaaaag ctaaggacga      600
agtgatatcg gtggaagaga aaataggaat gcaggagctg ccgatcacca acacatcgac      660
aaaagtggag ggtggtggta ttaccagtga agtaaacgaa ggtgtgacta acaataccca      720
20 agtghtaacc caataaagca attaaagaga atttttgaag accaaatttc caagaaagga      780
aatttgtttg tctttcttgt ttgtnttatg ctgtttacat tttcaagtta tctgtgttga      840
ttcaactata taacgaatgt tgtatatatt ctgtaattgt cgaatatcac ggaagttgaa      900
gaaatttcaa tt                                     912
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25 <210> 444

<211> 911

<212> DNA

<213> Arabidopsis thaliana

30 <220>

<221> misc\_feature

<222> (1)...(911)

<223> n = A,T,C or G

35 <400> 444

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tggtcactta tattaattta atttatttaa tttattagtc accggatcac aaattatcga      120
aataaattat atgtatttgt atgtgtttgt agaatgatac aataaaaatt taaccgaagt      180
agttgttctc actttcaatg ttgccgtatt ctaagtctct tgtggttggt tgagagaaaa      240
40 cacaagaaga tggagaagga ggatgagccg ttgtagggtg tgggtggagt gttggtcttt      300
gtggtggtgg tgcaatcacg gaaacaccgc cggagttgtg aaatccggca acttgggagt      360
tggaaggtac gatcaaagtg gcgacagctt ctcgttgctt gtacttaaga atctcggatc      420
ttacggccgt gagctcggct tgtaaagctg gacttggtgt tgtagagctg agatggctcc      480
catgcatccg tacaccggat ctcttagcct cacgtttgct tcatacacia ggctattcgc      540
45 ggcactctgct ctctggctcn caggtaacttc cattagcatc ttggagacgt tactagctcc      600
aaagactttg tggacggaag cgaacttatg aggctcgtgt ggggagaaat atggcgaaaa      660
gggacattct tgagcacatc tacggcgcaa aagcttgacg gcagcacaag gcgtaatggt      720
attgaggggt ccgggaggac ccgacattgg tcttctaatt ccagccattt gatgaggcca      780
agcatctgct tctcttttga tcttcttccc tatctcttca aatctctccc tttctcttga      840
50 cattcaggca tctctcagc gaatcgcaaa gagaaaaagaa aagaaaaaac agagaaaaagg      900
agaaagaaac a                                     912
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<210> 445

<211> 911

55 <212> DNA

<213> Arabidopsis thaliana

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5      <220>
      <221> misc_feature
      <222> (1)...(911)
      <223> n = A,T,C or G

10     <400> 445
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      tcttatatac catagaatct aacacaaaca ttaaagtagt caagcaagac aaatttaaca      120
      ccaagtaata gtaaaacaga cacaactat atatggaaca tgtggacaat gaaactagtt      180
15     cgcctttcct tgtttccctt ttatcagacc atcttgact tgggatgtga cggcaatagc      240
      tgataacaag agataagtga tgaggcgaat ccgaaagcac ctgtgactcg ggnnntgact      300
      ttctttgggg ccaattgaag caatccgaaa gcaacaacta catccatccc tgctttgatc      360
      agagccaatg acctctcggt tgatttctct acttttgcac ggtattgtct attctggtgt      420
      ttatccttgt tccctatctc tttttctaac ttcttaattg atgctgacag cctaccaagc      480
20     tccccaacct caaccaagga tgtgcaaacc gaagaacca tccaacagaa aagtgatata      540
      cgtccaagaa tctcagcacg ttctttgtcc ttgtaaatcc cagtctgcc aagccacaca      600
      atttgatcta ggaacaagaa cggtgacagc aacgcgtttt tagactttcc gagcagaaca      660
      agcgggagtg gagtcccttt gggaacaggg ctaatgagag catgaagatc attacaaac      720
      ttgaagagac ggaaaacttt cctagccaag ctggtgttct tgtcgacatt ttgagcagtg      780
25     ccagggttggc catcactcaa gaacttgaa ccatattgaa tagctcgaca aatcttgtct      840
      ctgcctccg ctttattcaa atacacaact accagaccaa gtcagctct tgtggtctca      900
      aggggtactca t                                                    911

      <210> 446
      <211> 910
      <212> DNA
      <213> Arabidopsis thaliana

      <220>
35     <221> misc_feature
      <222> (1)...(910)
      <223> n = A,T,C or G

      <400> 446
40     tatataaata gtcacaaacc aacagagaaa aatacactgg aaacaaaatg atacgagggc      60
      ctcacaaagt attagaagac gtctggatgg taccgccccg ggatggaact gttttgctga      120
      gcttgtttca gatgaagcgt cagagcatag ttattcacct cttaaagtct caactgttcc      180
      tggatttgag tgactagctg cctcagatgc tgcaattcct gactttgggtc ttccgattct      240
      ctttgccgct tctgctgtgt cactaccgct cgtttcagta aactgttttc ctgtacaata      300
45     gcttctaatt gctgcttcag catcatgttt tcctgttgga gattttgcat tgcgtcagta      360
      ccagtacgtg cattaattga cttctccaaa gcttnnaatg ctcttgacgc acgggctttg      420
      gcgtctttca tgtcagaagc attcatcatt tccctaacia aaagctcaac ccactctgta      480
      ccatccaagt tcaagacatt tggttcctcc ttggtgatc cttgctgttg aggttcaaca      540
      tttggttcct ggattacaac aggagattgg ttgtagcag aatcagaatt cttattggca      600
50     gattctaaac gaagctgatt caaacatcta atggtgaat caaggatc tccacattcc      660
      tcgattgccc tctcaagaat ctgcttatcc atatcgggga aaatcgcggc gaggtgatcg      720
      agaagaagtg aggaagaagg aggaatcgga ggagaaaaac gagacgaaga agatgaagaa      780
      aagcaacgga gtttcttgga gacgggagga gaagcggcgg ctaagtctc gaacagagat      840
      ctcttccgcg aaacaatcgc agacatgtta tctgcttccc ccttcttct tcttcttgta      900
55     gatctctcaa                                                    910

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5 <210> 447  
 <211> 910  
 <212> DNA  
 <213> Arabidopsis thaliana

10 <220>  
 <221> misc\_feature  
 <222> (1)...(910)  
 <223> n = A,T,C or G

15 <400> 447  
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 acatataacc caacataatg gcaaaaaacac aaaagcaaga aaaaacttgt aaaaaaatcg 120  
 atctagggat gtcaaggcaa actcgtttta tagcttaggt gtatgaacat tctgtttatt 180  
 ttgagagcca gtagatgatt agaaacaacg tacaagcagc gatgacagcg gagaggataa 240  
 20 gtgtgtcccg agaacgtttc cttttaattg agccaagtaa gccacgaatc actgggaatt 300  
 tgtctccgag attttttact ttcccttgaa catctgaaaa cagagatcgt tgagagccaa 360  
 gaactgctct tgtcgttga gcttgaccaa tcacatcatc aatatgggat atacttccat 420  
 ggattgaagc tctctccctt aacacntgca cacctgggtga cactactacca gaagccttat 480  
 attcacttat gtcacccctg acagaactca gaagctcagc gtgttctctc aacgagttaa 540  
 25 tatttccttt tattcttcga aactcctggg tatattcatg aagtatatcc ctgtgccttg 600  
 ctagtttttg agtaaccgat gttgtgggtg cagcagatgc agcacatcta ctcatggaat 660  
 cattaatatc caacaacttc tcaagcaacg attgaatttc catctccata gacttccatg 720  
 atctccccga tccaacgggt ggagacccag tgtcaacata cccgccttga gtaaactcgg 780  
 cgcttagctt agcgtaagaa gagagcttaa cgtctagatc tccttcaatt ttacgagctt 840  
 30 cccgcctaag ttcttcccaa ccagattcct gcagatccag actcgattct gtcattttcc 900  
 gatcttcaac 910

<210> 448  
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 35 <212> DNA  
 <213> Arabidopsis thaliana

<220>  
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 40 <222> (1)...(910)  
 <223> n = A,T,C or G

<400> 448  
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 45 cttaatagaa tccgagggga gttttgtaaa tgaagctgtc gagcttctca aggatgggat 120  
 tgagttgggtg acagattcag acaaagtact tttgaacttg ctttcatatc ctctacacgc 180  
 tacattggct agccctgaag ctaagcctgc tgtggaagac aaacttcatg aagtagcagc 240  
 cagcctcata gctgcttatg acagcggaga gattccaagc gctttagaag aaggacaagg 300  
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5 aacaaatggc acaaagaaat ttgtagatta taatgtatca gcaaagcaaa cttaggaaca 840  
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<210> 449

10 <211> 910

<212> DNA

<213> Arabidopsis thaliana

<220>

15 <221> misc\_feature

<222> (1)...(910)

<223> n = A,T,C or G

<400> 449

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aatgaaaaga gacaaataga ggaagcaatt tttgnnnnng ttttaagggt gagcaagnnn 180  
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25 cgagtccatc ttgaacattc cagctccaaa tgtgtagcct attggtacaa atagcatccc 360  
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40 <213> Arabidopsis thaliana

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45 <223> n = A,T,C or G

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	gaaactggag	aatatctcga	tgaggaagtg	ttcgggatgc	gagttgccgg	attcagtgan	840
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<211> 909

15 <212> DNA

<213> Arabidopsis thaliana

<400> 451

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	gtaatctcat	ccaccactt	acgcacttta	gatctttttt	cgaacaattt	cttcggttga	300
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<211> 909

<212> DNA

<213> Arabidopsis thaliana

40

<400> 452

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	catgattctg	agtctcttac	aagaagaaga	gaacatgtcc	catggaacat	caccaaccaa	420
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10 <212> DNA  
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<212> DNA  
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5 <213> Arabidopsis thaliana

<400> 455

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10	aaaagtaaca	gaaacataga	tgctgcagaa	atcttctgag	gagaagcttc	aacgcctcag	180
	ggtgtggaga	atgtattcag	catagaggtc	cattgagtag	tggatagctt	caaccgcaga	240
	ctcagatggc	agaaaatcat	tactgcaac	ttccttggtc	tcgtttttct	tgtagtcttc	300
	gaagaaacga	cggatttcag	agagacgggtg	aggaggaagt	tctttgatgt	cagtgtagt	360
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	accatagtgt	tgagggtaga	caactgatga	gtagagaata	cgatcaacct	tgtagtgtcc	600
	tgtctttttg	tcaagctcgt	atttgacctt	gcttccttta	gtgatctcaa	caaccacatt	660
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<212> DNA

<213> Arabidopsis thaliana

30 <400> 456

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	gcatttggtg	agcgctgaa	gatcgagggt	tgggaagtga	gcaacaagat	cagtgtcggg	180
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	gagcagacaa	aggaagcttt	tgatatagca	agaaacagca	ttgaacttct	ttccacgggt	840
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<211> 907

50 <212> DNA

<213> Arabidopsis thaliana

<400> 457

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	taagaccagg	cgttgttagc	cacaggatca	gccaaatgat	caaataagtt	ctcaatggga	180



5	cctttaccag taacaatggc ttggacaaag aatccaaaca tagagaacat ggcaagacga	240
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	aatgggtcga acgcacctcc gggataaagc gggtcgaagtc cttctccgag tgggccacct	360
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	ccccaatata tatataaagt ttatatattat ccttccaacc aatcaaagat gcatgtacta	180
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	acgacggagt ccgacgggtt attattacca ccgtcggaag agcttgagct ccggtatgtg	780
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	ttcatctata tgcagaaaac cttatcata ttcaattgat atggctacag atttcacttc	180
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<210> 460

<211> 905

20 <212> DNA

<213> Arabidopsis thaliana

<400> 460

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40 <210> 461

<211> 904

<212> DNA

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45

<220>

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<223> n = A,T,C or G

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      atcaggtgag gcccggtgag agccggacca acaatggtag caaaaccaag gaacagaatt    480  
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      aagtttacgc agcaatggta aagtaatagt cgagcaatgc attttccctg ggcttcagga    780  
      gtattacttt tggctgaat tttgtagttg ctcnnnnnac cagtcctttc taggaaaatg    840  
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 30    tcaaattggca ttcccatcct tacgatctga cagcaacctc attcagttca accgccagct    180  
      gaaaagatgt gactatgact taacagcttg gagaaaacta gtggagcctc gtgcaagcgc    240  
      tgatctccgt agaggggtcg agcttgtaga tctagacggt ggaatcggat gggaactttt    300  
      aacatcgatg gtccggtaca aagcaagaca aagaatcagc gcaaaagcag ctcttgctca    360  
      cccatatttc gatagacaag gattgctcgc gttgtccgct atgcaaaact tgagaatgca    420  
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      ggcaaaaaat gggacagaaa aagatggttg attcacagaa acacaactcc aagaactcag    540  
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      gcttcagagg aagcttgtga aaacagtcac tgagaccata gatgagatta gcgatggccg    660  
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 40    aatatatcat ttttcatttc ggtttcgata gtgtaaatct caatgtatat cttattagcc    780  
      cttagtaaaa tttctactac ttgtaaaatc aagtaatctt aaagaaaaag atgtattgta    840  
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      ttcaaaaatc aacaaagatg agaccaactc accaaagaca accacgcacg ttcgtttggt    180  
      caacacacac aaacaaacac atcacacact ctctctttct aaacattggt attatatggt    240  
 55    aagtagatga atttcgagag agagtgcgag gcttaaggga gtttagtaga agtgccata    300  
      agtagagcta atctgaggtt tctgcaagcc aaatttggtc ttacttggtg tcttttagcat    360

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   ctgtgtcata atcctgaccg ttctccagcc tctctgccga cttttgtctc attaaccttt 540
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     ctcaatcttc ctcttcggac tcagactcag cgctctgaag ccactccaca aaaggcttaa 180
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5  cgaaagattc tttcttcagt acaaatcgat ccaaatccgt tcagtactct ccttgcgatc 240
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   atgctcagaa actccgtcaa atcccagtc tctatcgccg tcaaacctga ctcaacattc 180
   tctccgtcgc taacggcgta actctcctcc ttctttagca ctttcttcac caccttctact 240
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   cgagttccac gacgagtcgg atctcggatc tccgcgcgca attttcccca cggcctcatc 480
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   gtgacgagat cgattatttc cggtttggtt tcaaattcag aaaactcgaa accggtttga 780
   tgaaatgacg tgaaatcggt catccatcga ttggtggtgg cagtagtagg caacggagac 840
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55 cccaattcca aagccactat cggcgtcgag tttcagactc agagcatgct catcgacggc 180
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	ttctgggtct	aggtaacct	gagtgccctg	cactattgtt	gtgagctgct	ctttatccat	660
	cggatatcaat	cttgatgcac	caaagtcagc	tacttttgca	gttaagtttt	tatccaggag	720
	aatattagca	gtcttgatat	ctcgggtggat	gattggaata	gaagcagaag	agtgaagata	780
10	tgcaagactt	cctgctactt	ctgttgctat	cctcagacgg	tgctcccatg	taagtgaaga	840
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<210> 474

<211> 898

15 <212> DNA

<213> Arabidopsis thaliana

<400> 474

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	aataaattat	gcagtcagac	atagagaact	aaaataaacg	gtttatgaag	aagaagaaga	180
	aggaaaagca	aaaataaata	atgatttgag	aatgagagaa	agagaattta	aaaccaatct	240
	aaaccgggct	atcagagctt	ctgatcatct	ccggcgagga	ggctctgtta	ccagaaccag	300
	gaccggaccc	tgaaggtcga	atctcctcca	tcagtgttaac	cacttcctcc	attgaaggcc	360
25	tagaatctgg	atgcttagac	acacatgcc	ttgctatctg	caacatctgc	accatttctt	420
	cctctacgtt	gtgttgctgc	ttgatcagct	ctacgtcaaa	cacttctcca	gtccactcct	480
	ctctcaccac	tgattgcacc	cactttggca	gatccaccac	ttcttcatgc	ccagtagtct	540
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	acttctgggt	atgtttccgt	gtttctatgg	cctcgggtgc	tctgtaacct	aagcttcttg	660
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	gaagtctctg	ggtaagagg	acatttggtg	atttgatgtt	tccatggagg	agtttagcac	780
	cagatgcaga	atggatgtga	gaaattcccc	tcgcagcttc	caaacagatc	cttaaccttg	840
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<212> DNA

<213> Arabidopsis thaliana

40 <220>

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<223> n = A,T,C or G

45 <400> 475

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	cttgaacttg	atcatccaca	atagtttctg	atgacataaa	agtatgcata	ccatagatca	360
	catctaagga	ttatgccctg	taaccttata	cttcacgaat	acaattttatc	gacaaaaaga	420
	ctgaaactct	agctaaactt	catcctccta	attgaaatca	aatatctcct	aattccaaat	480
	ccttaatctt	caccctccta	actccactaa	ctaaacattc	ctaagtcaaa	ccaactatcc	540
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	gatttgga	agcaatagat	caaagcaagc	ttctttgact	ccttaagaca	atgaaagcta	660

5	naaatatata	tgtatcacca	aatgctcaac	atcttctctg	attctataag	caaggattta	720
	aaacaacaga	ctctgattat	attcaacact	cccaaggaat	taaaccctaaa	atcaaaaacat	780
	gatctttctc	tgcacaaaaa	cgggaaaaat	aaaaacttta	caacaacaaa	tcagaaaaac	840
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10 <210> 476  
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 <212> DNA  
 <213> Arabidopsis thaliana

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	ttcctctctc	atcaccaaaa	caatgctttc	tctatgaact	tcggcgactc	cgccgtctta	180
	gcttacgctc	gccaagaaac	ctctcttcgt	caaagggttg	tctgtggact	agatgggatc	240
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	tctgggaaga	actcaaacga	ggcaatgttt	gtgatcgaag	cttatcgaac	acttcgtgat	360
	cgtggctcct	accagcaga	tcaagttctt	agaggctctg	agggaagctt	cgctttcgtt	420
	gtctacgata	ctcaaacctc	ctctgttttc	tcagctctga	gttctgatgg	aggagagagt	480
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	tagtttcgtt	aactcttgct	tctttgttgc	gttttctttt	tatgtactct	tgtttatgta	840
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 <212> DNA  
 35 <213> Arabidopsis thaliana

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	acaaaaacga	cgacgtatct	agcgttggaa	cagctgaaga	tcgggtccaag	tttccgcacg	300
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45	cagcgtccgc	cgttataaac	gtggtttgag	atttcttatt	agaaactcga	gatcggcggt	480
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	tagcggcggg	gatttctgga	tctgagccga	aagagacggt	ggagagaggt	tgaggaggag	600
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	cggtggaagt	ggagatggat	ctgtgaagag	ctttagcgag	tatatcactg	tcgtgtgaga	720
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	cgcttgctaa	tcctccgcac	gacgccatga	ttgttaagta	agtaaatcac	cggagaagaa	840
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<210> 478  
 55 <211> 896  
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5 <213> Arabidopsis thaliana

<400> 478

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10 ttctgcttca gttcaccgac aagaggtttc agccgggtgca tgaccttacc attggtgttg      180
aatttggggc taggatgatc accatcgata acaaacctat caagcttcag atctgggata      240
cggctggtca agaatccttt aggtctatta caaggtcata ctatagagga gctgcagggg      300
cattgcttgt ctatgatatc acaaggaggg agacatttaa ccatctagct agctggctag      360
aagatgcaag gcagcatgca aatgcaaata tgacgataat gctcattggg aataagtgtg      420
15 atcttgctca cagaagggca gtgagtacag aggaaggaga gcagtttgca aaggagcacg      480
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tttctatagt tgtaaatcgt tttggaattc gatttggtga ctggtgtggt tggttttgga      840
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<210> 479

25 <211> 896

<212> DNA

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<220>

30 <221> misc\_feature

<222> (1) ... (896)

<223> n = A,T,C or G

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tatagaggag gttggttggc ttttactggc cgggtgtggc tccctcagca acgtcggcca      180
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ctattgcttc ttatccaatc cactctcttt tgagattcaa tttgcaggaa tatttacaga      480
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45 gtcgattgtt atcgggtgtg attccttctt caccggaatc ggtgctcgga cgacaaagga      660
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50

<210> 480

<211> 895

<212> DNA

<213> Arabidopsis thaliana

55

<220>

5 <221> misc\_feature  
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 <223> n = A,T,C or G

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 15 ccgaggatag aacaaaacta tgcgatgtc taaactacaa gaaattgaca ttggacacat 360  
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 <212> DNA  
 <213> Arabidopsis thaliana

30 <400> 481  
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 aaggagaaat gagtcatgca tatttagatc caacgattat aagaagacat aacgaacagc 180  
 35 tgaggaaactg ctaatgctct gtctcaatca ggatgtgcag tttaggaatg caagtctact 240  
 aaccttgcat tacatatgat cttctagcga gccacatcat aagcctgggtc tgcacgtac 300  
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 45 gctgctggag ttgaaccata cgatgctgct gctgggtgtt aaccatatga cgggtgctgct 840  
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<210> 482  
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 50 <212> DNA  
 <213> Arabidopsis thaliana

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 aagataacaa gagacaaaag gaaaatttgc agtgttctca tgaattggtt caaccaagga 180

5	tggggaagat	gcgggcaatg	tgttccaagg	gaacattctc	acctgtat	ttcttgagct	240
	ccggatgggt	aaattcattt	tgtggtgaaga	caatacttcc	accctctttc	tcaacaatcc	300
	atccactggt	agtcacttgc	tgctcgatga	atgtgtctag	agatgcacca	tccatgttaa	360
	cagcctcagc	cagcactgat	cttggaaacct	tttggttagct	taagctaaga	agggtgacttg	420
	catatgcttg	aatagcttgc	tcaaaacctg	gaacagcctc	gagaatgtga	cgggttcttgg	480
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<211> 895

20 <212> DNA

<213> Arabidopsis thaliana

<400> 483

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	agtcctcaaa	tgaattggta	aaggaaagct	ttaatctcat	caatataagg	agactttgta	180
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	gccaggctctg	agctggcttg	agtcacaatt	tgtctgtctt	ttccaggctg	acttccgaat	300
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	tgcctaaatc	catgcaagca	caagatcctc	agcttccgtc	ttgtattgtc	accattgctt	840
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<211> 894

<212> DNA

<213> Arabidopsis thaliana

45 <220>

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<222> (1)...(894)

<223> n = A,T,C or G

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	taatagtcaa	ttaccgggtg	cgtctgcttg	tggaaatgcat	ctagccttga	tctaagaaca	360

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15 <210> 485  
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<212> DNA  
<213> Arabidopsis thaliana

20 <220>  
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<223> n = A,T,C or G

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gtttccggtta ctagtgactc ttaccatcgc cgtcatgtct tccgtgaaca tcgctcgnnc 180  
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35 ccgattgata tcgattcttc accaaccgta gctagagctg aatcaggaaa caaacgggtg 600  
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gaagaaaaca acgagaaaaca agctaaatgt ggacgtaatc gttgtaattg ctttaacggc 840  
40 aacaacgatg gttcttccga tgatgaatca gatctattcg gtggttcaat cgac 894

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<211> 894  
<212> DNA

45 <213> Arabidopsis thaliana

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20 <223> n = A,T,C or G

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 25 taaacttttca attaagtaga gcagcaacct cttttgccag ctccagatgt gtcttcaacg 180  
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	cctccaagcc	caccaagacc	accaagtcca	gcatttgtcc	ttccaggggc	agttgtctgg	840
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	gacgcagtct	cattggagaa	cgcttttatag	ggaagtgtct	ttgcagctca	780
	caagtgcctg	cttcttgtaa	ttactatgag	gatcaacagc	aaaatgaatt	840
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	taatcataaa	aaaaaagtta	cagaataact	ttcttcttga	aggaagaaaa	agatcaaaga	180
	gaatcaagaa	tggtagtgtt	gtttaaatgg	agacaacaac	agatgacaaa	aggtcaacgt	240
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	tccatagtca	tccacgaagt	gaacattaag	cccttctttc	acattctctg	ccagctcatc	360
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20 gactctaaaa gaaagtgact gaccaacca aactgagtta gattgccagt tttgtcccca      240
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	tcatttttat	aataaaaata	aataattcaa	attaagtttg	atttctttca	tcgggctgat	300
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<211> 888

15 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

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<223> n = A,T,C or G

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40 <210> 503

<211> 888

<212> DNA

<213> Arabidopsis thaliana

45 <400> 503

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	acccaaatgg aaatactact ggaccttctt agaatctgta tgtccttcct ggataattac	840
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	tctgaaatca ataagaacat tctctcaata acagagtcca gttgatttag cagactctcc	180
	aataatttaca ttgtaataaaa cctgcttcac tccctccct ataccacaat gtcccccaga	240
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	tttctcagct actgctttga gacggtaacg ctcagctctt gacccaatca cctgtcccaa	360
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	ctgttggttt ttggaagggt taggtttctt ctgttggttc ttccatttct ctgagaaagg	840
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	atcaaacctt ccaacaatg ttttcacttg gaagatactt cgtttctcta ccttgaaga	360
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	tcaacgaagt actaaccata gacaaatata ttctgcagct tggtaaccga ttggaagcgg	600
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	agagatattt gatgagtttg taataagaaa acgttaatgt ttgtgaattg tgaagttatt	840
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10 <223> n = A,T,C or G

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15	gannaagaac	tcatcgttta	ctatctccga	aaccagacca	tgtctaaacc	atgccctgtc	180
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	gagtttggag	aaaatgagtg	gtattttctt	agccctagag	aaagaaaata	tccaaacgga	300
	gtcagaccaa	accgggcagc	tgttttccgt	tattggaaag	caaccggtac	agacaaagcc	360
	attcacacg	gttcgagtaa	cgtaggtgtc	aagaaagctc	tcgtcttcta	caaaggtaga	420
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	aaagcatcaa	cgaaacgtag	cggatctatg	aggttagatg	aatgggtact	atgtaggata	540
	tacaagaaga	gaggagcaag	taagcttctg	aatgagcaag	agggtttcat	ggacgaagta	600
	ctaattggagg	atgagaccaa	agttgttatt	aacgaagcag	agagaagaaa	tgatgaagag	660
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30 <211> 886

<212> DNA

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35 <221> misc\_feature

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<223> n = A,T,C or G

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	tttatctatt	gaatttttgt	tttctctctg	gataatattg	tccagacgag	cgccaaatcc	180
	ttccttcaag	tgacacaacc	atgacagaga	catcatcatg	gtacttcctt	ctatctcctt	240
	gaggaatata	caacagatca	tgaaactcca	ttccgttctt	ggtggcagca	cgagagagaa	300
45	gctctgcaat	gaggtattga	gcaggatcgc	cttcaggaac	gttttcgatg	aaccaagtca	360
	cgtgagcaac	aacctcttcg	ttgctgaagt	attcatacaa	tccatccgag	gataaaaacca	420
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	ggtctgttcc	aatgtactct	acttggaaaca	tctcaagcaa	agcttcattg	aaatttggct	540
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	ctgatattct	atccagttca	atacgacaaa	gtgattctcg	agacctactc	ttatgcccca	840
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5 <211> 886  
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<400> 508

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	gctcctggtg	attggtcttt	actcgatcaa	atccccggtg	atcgcggtgg	ctccattgcc	180
	gtgcaaaagg	atgagttaga	gcacatgcta	aaagagcttg	atgcacatat	cagtgtggct	240
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<400> 509

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	cgttaaaatt	caaaacctaa	caaagttttt	gtggcacaaa	ctcaaaaacc	aataaaacaa	180
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45	cagtccttga	ttgcttctga	gcacatgttg	atctgtgtat	atgcagcagc	cctgttgcag	840
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	gttacgagtc	gcagaagaga	cgtgactgga	acactttcgg	acagtacttg	aagaatcaga	180

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 15 tattaagctc tattcatatt tattctctta ttaagcactt ttcttttgaa taaagtaagt 840  
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<210> 511

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20 <212> DNA

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<223> n = A,T,C or G

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<223> n = A,T,C or G

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<212> DNA

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<220>

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<223> n = A,T,C or G

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<223> n = A,T,C or G

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40    <400> 538

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   aaagtcgaaa ccagatactt aaatgaagca agcaaagcaa agtaaatgta tatacctttc    180  
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      ctgaagaact atgaccctca aaaggacaag cgtttcagtg gatctgtcaa gttaccacat    180  
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15 <222> (1)...(873)

<223> n = A,T,C or G

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45 <400> 555

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15 <222> (1)...(872)

<223> n = A,T,C or G

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<223> n = A,T,C or G

45 <400> 559

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15 <222> (1)...(871)

<223> n = A,T,C or G

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 35 <213> Arabidopsis thaliana

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5 <213> Arabidopsis thaliana

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<210> 567

25 <211> 868

<212> DNA

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<400> 567

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45

<210> 568

<211> 867

<212> DNA

<213> Arabidopsis thaliana

50

<220>

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<222> (1)...(867)

<223> n = A,T,C or G

55

<400> 568

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   ccaaacaact tcctctggct cggagttgtg atcttatcat cattcgtcac gtttctcttg      180
   ctcatagggg tgcgtcacacg ttactatata taccctgttg accataatac aggatccatc      240
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<210> 569

<211> 867

<212> DNA

<213> Arabidopsis thaliana

25

<400> 569

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<210> 570

<211> 867

45 <212> DNA

<213> Arabidopsis thaliana

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<221> misc\_feature

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<223> n = A,T,C or G

<400> 570

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5	caaacgatttt	tacccgagaa	acacaactaa	gaaactgaga	tctcttccat	gccgctaatt	240
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<210> 571

<211> 867

20 <212> DNA

<213> Arabidopsis thaliana

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<223> n = A,T,C or G

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	accgggggat	ttaggacggc	ataagcaagc	aactcttggt	catcgacaaa	cacggacatg	240
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	tcgctagcgg	ccttggtgtt	cagctcagca	atcttagaag	gttcgaagac	gaatcttttg	840
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45 <210> 572

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<212> DNA

<213> Arabidopsis thaliana

50 <220>

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<223> n = A,T,C or G

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	cccgcgagaa	caaagttaag	cgcgatacgc	tgaagaacat	ctgttggaag	aacgttaccg	840
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<210> 573

<211> 866

<212> DNA

<213> Arabidopsis thaliana

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<211> 866

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15 <212> DNA

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35 <210> 576

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 <212> DNA  
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10 <220>  
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      aatctaattt gctttggctg tggagaaaga gagagagagt ctttaatacgt ctcattggctg    180  
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      gatgatcata gattcctctt tagccagctt ggagcagaag tccaaatcat cactgatatc    360  
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	cgttttactc	gaatatcaag	attagtttaa	ttaagcagtt	tttgatggat	tatgtaaacc	780
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<211> 854

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<213> Arabidopsis thaliana

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20 <212> DNA

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45 <400> 633

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ttata 845

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 30 <213> Arabidopsis thaliana

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	aaatttgcgg	caagggagag	gccggaatca	gtggtggtgc	tcacgtctt	cgtcaccgtg	300
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20 <211> 843

<212> DNA

<213> Arabidopsis thaliana

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<212> DNA

<213> Arabidopsis thaliana

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<400> 651

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45 <211> 841

<212> DNA

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<211> 840

<212> DNA

<213> Arabidopsis thaliana

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5 <213> Arabidopsis thaliana

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	gggtctccatc	ggttcttttg	aaatctgctg	atttgtaact	ttaatatcat	cttcatctga	300
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25 <212> DNA

<213> Arabidopsis thaliana

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	caccgactag	ttgtatcaca	gttccttgct	ttcaagctgt	gctttttctg	ctgccttttc	360
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50 <221> misc\_feature

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<223> n = A,T,C or G

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20 <212> DNA

<213> Arabidopsis thaliana

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	gatgataaac	agccagtaat gtattcaaat tcataagtta tttcgccgta gatgcttata 780
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5 tgttttaaaaa gggaacttgt tttctgcttt tgtgttactc tctctaattc ctttgttttc 780  
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<211> 838

10 <212> DNA

<213> Arabidopsis thaliana

<400> 668

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30 <211> 837

<212> DNA

<213> Arabidopsis thaliana

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<212> DNA

<213> Arabidopsis thaliana

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	ccaaaaaggt	ggcgataaga	aagggccaga	tgacaannnn	nntccggagc	caaaacctgt	480
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	cgttttttact	gctgggacac	tgctggacaa	gagaaatttg	gtggccttag	ggatggatac	300

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	acttaacaat	cacggtccaa	atgttttagca	tggatgagcc	ataacgtata	ccagctthtt	780
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	agtatttgag atgctttcct ctgatttcag accaaccgat attggccaga gcggctacac	780
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&lt;211&gt; 832

50 &lt;212&gt; DNA

&lt;213&gt; Arabidopsis thaliana

&lt;400&gt; 690

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 55 <213> Arabidopsis thaliana

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 aaagggttct taggccaatc tcaaagccct tcaaagtctg tttatataca ttgttttgtc 180  
 tcttaaattc ttataaattc ctcattacct cttttcacat cacgcaacat ttcaccacta 240  
 10 gtcccttttg gtctgtctct ccttcctcat taccttccaa gggttgagct aacttgcggt 300  
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 45 <213> Arabidopsis thaliana

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 55 tgcgacgaaa agaaggcggc ggattcaaag aacacccaaa tacaaatcga agacggagcc 180  
 ttttcagcaa tttcgtttta ttcaacctct ggaacaccaa tcatctcaaa ctgattgaat 240

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	cgaatgctaa	gaaccgcgtg	atctccattc	cattagaaga	actaccaaac	aaagtaaaag	360
	gaatcgtgag	gaactctaaa	cgagttgaag	cagagatagc	agcattaaag	atttcttacc	420
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	cgtttgcaca	agtcttgtct	ccatcgcgga	ttatcccggc	agcttcgaga	agctttggca	660
	ctaggtccgg	aaccaagtct	cttcctagct	ccgactgaaa	acagaggata	tataaacagt	720
	ttnnnaagtc	ttgttttagta	ttcctttatt	tctcaacttt	gagagatctt	ttgataagat	780
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<213> Arabidopsis thaliana

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	acgccgga	acgcctcgat	cacagagatc	ggacctaaaa	gagccgaaca	agcaatgtca	360
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	caagcctcgt	cgacgtattg	aacaacgttg	agggactcac	agatggagag	gtcaccatgg	660
	aggaggacag	ggacttttctt	gtggatgggg	ttagatttga	gaaggagttc	actcttttct	720
	ttaagaacat	cagggttcgtc	taagtactcg	tacttgacag	atttcaagtg	tagagccaca	780
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<211> 824

<212> DNA

<213> Arabidopsis thaliana

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	agctcacggc	ggccaccgca	gcctcacaga	cggagcttc	caaaaaagcc	ataaacttca	180
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	acgcaaacga	catccaaaca	agccctaaac	gtttagctga	gaccgctata	gccgtgacac	300
	taagccgagc	ccaatccacg	aagctcttcg	tctcgcgtct	aacacgtatg	aagggtctta	360
	agaagcgcg	ggtcgaagcc	atcaaagatt	gcgtcgagga	gatgaacgat	accgttgacc	420
	gtttgaccaa	atctgttcaa	gaactgaagt	tgtgtgggag	tgccaaagat	caagaccagt	480
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	cttgctccga	tgggttctcg	ggtcgggtta	tggatgggag	gatcaagaac	tcggttcggg	600
	ctagaatcat	gaacgtggga	catgaaacca	gcaacgcttt	gtccttgatt	aatgcctttg	660
	ctaaaactta	ctaatttaaa	actataat	gtcctgtaaa	atatatatat	agataaatgt	720
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<211> 823

<212> DNA

35 <213> Arabidopsis thaliana

<400> 719

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40	tgggtttgtc	ggaggttttt	tccctgtctc	taccaccaag	atcgcgtgga	aatcaagaaa	180
	aagatcagca	ttgttgaacc	tagacaaagc	accggagggt	gttacggagg	tcacaccaga	240
	gaagaacgag	ataacagcaa	tggataccga	gaaagttggg	gaaccaatga	ccacaactcc	300
	tcttctgtcc	gagaaaagga	aagctctgtt	cgagccactt	gaaccatta	cgaacttgaa	360
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45	ctacccaaaa	ggctggttga	tcggtaaaga	gaggaagctt	gtgaatgttg	atgtagttga	480
	gagcatgcgt	agaatagctg	tccaagaaat	gaacagaaag	gatcgagaga	tagatgggtt	540
	aaacgagcag	ctagaagagg	attcacggtg	cttagagcat	ctacagcttc	agctgctaca	600
	agagagaagc	aagagaacag	agattgaaag	agagaacaca	atgttgaaag	agcaagttga	660
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55 <212> DNA

<213> Arabidopsis thaliana



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atcgattcct acctctattc ccgtcaacgg aaacacgtta cctagttctt acggaactcg      180
10 caaagacgac agcccgtttg ctacgttctt tcgctccacc gaatccaacg ttgagaggat      240
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15 tcaactgcct catgatgttc caccggaatc cgatcggtgc cttagatcct cttccctctt      540
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gaaaacccaa gtgggacatg tcattgttat gattctgcta gtgaagatgt tcgagagaag      660
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gtcctctgct tctctttata tctccataa tctccacaaa ggagagacat gaaccaatgt      780
20 atatgtacag acccaatcta tccaatatat gtgtttactc tgt      823
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25 <213> Arabidopsis thaliana

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30 <223> n = A,T,C or G
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35 cattttattca aacaaaagtc caacacgatt aaacaagaag aatcaatatt ccatcctttg      180
cagtagtaaa aagggaacttc actaatcact tgaaaagcca aatgatttag tttttttttt      240
gtttcttcga agaaataaag aaagaaacct tcttttagcc cgagagagct gcgttgatgg      300
cactgtgaac ttcaacacca atctgtgcct ctgctttctc aagatctgtt gtggcagaag      360
caagtttctg ttggaactca gctaaacctt tttggacttg gctagggtca atgtgggtcaa      420
40 gcggcacagc ttccaccgcy attatgtcag cgacggaatt tgcgtggagg aatgcaaac      480
cactgctcaa gaagtatttc ttcacgtcag tgccttcacg gacggacatg atgccagggt      540
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gaatgatgac catgtcgacc tctttcccggt taagctcaga tgtgtaaggg aggacaaaat      660
tgacggtgag ctctgtcggg atagaagaag gagtggaagg acgaggtttc atgaaagcag      720
45 aaggagtctg cgggtgggtcc atattcggtg cgactttctt ccatgcctcg acgaaagtgg      780
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50 <212> DNA
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<223> n = A,T,C or G
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aggtctttat caagtcgaca gcttttccga cgatccaaag ttgtcaaggc agtagcaacc      180
10 ccagacccca tcttggaagt acctttaact gaggaaaatg tagaaagcgt tttggatgaa      240
atccgacctt accttatgtc tgatgggtgt aatgtggcat tacatgagat cgatggaaat      300
attgtgcggg ttaagctgca gggagcatgc ggatcatgtc caagttctac tatgacaatg      360
aagatgggta ttgagcgtcg tctaattgaa aagatccctg aaatagtggc tgtagaagct      420
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15 gaaatnnnnn nnnacttaat cnaaacagca gatggatcgc ttgatctagt ggagattgaa      540
gatccaatcg tgaagataag aatcacagga cctgcagctg gagtcatgac agttcgtgta      600
gcagtcactc agaaactaag agagaaaatt ccatcaatcg cagctgttca acttatatag      660
aaacaacaac tcttcttgta tgctttgtat tagctccctt gtatagtatt gttgtgcata      720
gattatgtgt tttgttgaca tttgctattt gtcctcaaat aagttttcaa catttttgtt      780
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25 <213> Arabidopsis thaliana

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agtcttcaag ctgttttggg gcaactgcgc tccaaattcc agccaagacg ctaccgagga      300
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40 tatactgctt ggcaagcttc gccgtaagaa gcggtgtcat aatcacagct gaaacagtgc      780
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45 <212> DNA

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	cgaaactctg	aagttcggtt	tgtttaaaaa	ctcatgattg	actcgaacta	gattccagtt	780
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15 <213> Arabidopsis thaliana

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20 <223> n = A,T,C or G

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	taccgggatg	catagagaag	atacctccac	ttctcgggtg	ggtgaaaaca	gttgaaaacg	600
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35	ttccaactgc	taatagactg	cattggagaa	agtgcctggg	agaaaactca	acgctctttt	780
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40 <212> DNA

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<400> 726

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5 cttactctca ctattgggtg gcgttgaaac ttttagcaata ccgagcccaa aggtagtgaa 540  
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<210> 727

<211> 821

<212> DNA

15 <213> Arabidopsis thaliana

<400> 727

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25 tctaacaaga agaacaccga tgaagaaatc ttcatacagc tgggatctga caaggaaaaa 480  
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30 ctctgtcttt cgtttctctt tggttgaatt ttggttagttt tataattttt tgttacactt 780  
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35 <212> DNA

<213> Arabidopsis thaliana

<400> 728

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55 <211> 820

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5 <213> Arabidopsis thaliana

<220>

<221> misc\_feature

<222> (1)...(820)

10 <223> n = A,T,C or G

<400> 729

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	ttattgcaaa	aagtgtgaca	ttagatctca	ggttgagttc	ttatgttgct	cgccacgctc	300
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	ggtgactacc	ttttgggggt	atgctgctac	tatnnntcga	aaggaggata	tgatgatata	600
	tacaggtcgt	tcacaacaaa	tgcaaaagtt	ggatgctcta	agatcatgtc	caattctctt	660
	gattggaact	atgctcttat	tgaggacgtt	atgaagactg	tttcaaagtt	atcattttat	720
25	ttcttttggc	tttggtagtt	gaatgtgttg	taacttctgt	ttggtttgca	attaacgtaa	780
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30 <212> DNA

<213> Arabidopsis thaliana

<220>

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<223> n = A,T,C or G

<400> 730

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	ttttacttgt	tttgacata	cacacaaaaa	taaanaagac	tttatattta	tttacttttt	180
	aatcacacgg	attagctccg	gcgaagtatg	gtcgtcgtct	tcatcttctt	cctccatcat	240
	cagatttttc	cttaaatgga	agaaacccaa	cgaaactccg	atcttctccg	ttctcgtgtt	300
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45	tgctgattct	ttttccttcg	actttctatt	tccaatcttt	cttcttctct	ttgtgtatta	420
	gattattttt	agttttat	ttctgtggta	aaataaaaaa	agttcgccgg	agatgacggc	480
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	actctcaatt	taatgcttca	tttaattcgt	ttggtgaatt	gaatcattct	ttttagtttg	780
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<210> 731

55 <211> 820

<212> DNA

5 <213> Arabidopsis thaliana

<400> 731

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    tgagaacgaa agccatataa cgctgcatga cctgaaaggc tcaaagctct ctggaaacgt 180
    cttcaacatc ctttttaatc taaacaaatt tatggcattt gaaaccggg atccgttcct 240
    cattcgtcag gagcgcgaga acccgacatt gacagactgg gaccgttttg cacatagaga 300
    gtatattcgg ctatcaatgg aagaagatgt tgaagatgca tccaatggaa gtgctgaggt 360
    ttgggatgac tcgtcactgg aggcctccct ctgagttcaa agaggtagca agtcaacaaa 420
15 agaaaaatcat aatctctaga atggatttta ttttttaaaa aaggaaacaa aaaaacttag 480
    aagttgaagg ttatggatat gttgtttatt catcatatta gttaatcatg caaaagagaa 540
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20 tcttcatctg tattgcattc actttgctcc atctctgggt tttttgtttg tactttagag 780
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<211> 820

25 <212> DNA

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<220>

<221> misc\_feature

30 <222> (1)...(820)

<223> n = A,T,C or G

<400> 732

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    gaatctccaa gatccacgat cgtgtcttca tcggtctttc tggctctgcc accgatgttc 180
    aaacactata ccagcgcttg gtgtttcgtc ataagcttta ccagcttagg gaagagagag 240
    acatgaagcc tgaaactttc gctagtcttg tctcagccat tctttannng aagagatttg 300
    gtccttactt atgccaacct gtgattgctg gcttgggaga tgatgacaag cttttcattt 360
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    cttcagaatc actctatgga gcttgtgagg caatgtacaa gccagatatg gaagctgagg 480
    aattgttcga gacaatatcg caagcacttc tctcatctgt tgaccgtgat tgtctgagtg 540
    gttggggagg gcatgtttac attgtaacac caacagagat taaggagagg atcctaaagg 600
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45 gtagtgtaac cttcacatcc cggtttaatt atatgatcat tccttggtcg aaattatggg 720
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<210> 733

50 <211> 820

<212> DNA

<213> Arabidopsis thaliana

<400> 733

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5	atggttcaac	cagcctgcc	ggaaaaccag	aagaagaatt	gcgaggcaaa	agaaggctgt	180
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	taagtacaac	atgaagggtca	gaaccggtaa	aggattcact	cttgaagagc	tcaaggctgc	300
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	ccgatctttg	gaggggtcttc	aaacaaatgt	ccagaggctg	aaaacctaca	agaccaagtt	420
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	ggaactcgtc	aagctgactt	cagaaatgaa	gtctttcaag	gcttttgaca	agatacgcct	600
	tgagcgcact	aacaagaggc	atgccggagc	tagagccaag	agagccgcag	aggctgagaa	660
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15	tggaaactgaa	ttttgtgtat	cagactgtct	tttctttcat	cagtttttat	ccttaaatct	780
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<210> 734

<211> 819

20 <212> DNA

<213> Arabidopsis thaliana

<220>

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<223> n = A,T,C or G

<400> 734

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	atttgtcacc	gagaaatgtc	gaaaacttgg	gagccaatta	gcatgctctc	ctttctgcca	180
	gagtgttggg	aatgtcgaat	ccaagagtta	ttacataagc	tttagtccac	ctgttacttc	240
	atcaacatta	tcaacaggtc	caagaatagc	cattactgtc	cttgaatttg	gagcgcctcg	300
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35	caaaactagc	atctcttcc	cactttcaat	tttgacaaca	acttnnngct	gagcacaata	420
	ttcccatctg	ttcaaggcnn	ttggcgcccg	ttgaaggagt	ttntgtata	aacctaaagt	480
	tgcagtactg	cattgagctg	caatcttccc	tttaccatt	ttaagatcat	tcctcacaac	540
	caaaaccatt	ttgaaatttt	tgcgaaaatc	agcgagtttc	tctatctcga	ggggttcctt	600
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40	aaagattcgg	cgggtttgtc	gtaaagtgtc	gatgtaatat	ccnnntgcag	ctccaacaag	720
	taaaacactt	aataaccaca	ccaaatccat	acctcttaa	agtcttccgg	cggctgagct	780
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<210> 735

45 <211> 819

<212> DNA

<213> Arabidopsis thaliana

<400> 735

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	atcagaagga	ataacctcga	cgacggattc	acagccaaga	ttggcgtgaa	gatactcgga	180
	gacaacgact	ggtacagcta	agtccttaac	actttggaga	atgtgacacg	gaacagtgc	240
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55	gtcgggacgc	atattgaaga	gtgttctgct	gaattcttga	acggcgatgg	agtccatgtc	360
	gccaccgacg	gcgagtggag	cgaaacctaa	gcaccacgct	ttgtagtgtc	ttcggtgggc	420

5	ttcgaatagt	tgggtttaagt	cttcttggtc	gaatccacct	tggtaatcaa	catcgtttac	480
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	agccaagaca	ccaatcatgg	cagaaacaga	gtggccaaca	aagatacaag	actcaatctt	600
	gagatcttcc	aagattgcaa	tcaaatecgaa	agagtagcct	tcgagatttg	agtaacgac	660
	gaagtcgaaa	tagtcagggt	tggtcgtacc	ggctcccatg	ttgtcgtaga	ggacgacgcg	720
10	gtaatcgtcg	accagatgtg	gaaccaagtg	tttccatact	gactggtccg	tgccgaaccc	780
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	ctcatgaaga	ttttaaacct	tgttgatgat	cggactgtga	tcattgcttc	ttgtatttgt	180
	agtggctgga	gagatgctgt	ttcccttgge	ctcactcgcc	tctccctctc	ttggtgcaag	240
	aagaatatga	acagtttggt	tctatctctt	gctcccaa	tcgtaaagct	tcagacttta	300
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	tattcacttg	ctcgtgggtg	tactaacctg	actaaactca	accttagcgg	ctgcacttcg	480
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	aatcagttgc	agtcactaaa	cttgggatgg	tgtgagaata	taagtgatga	tggagttatg	660
35	agtttagctt	atggttggtc	tgatttaaga	actcttgatc	ttttagctg	tgttctaate	720
	acagatgaga	gtgttggtgc	tttggcgaat	cgggtgcattc	antngnggtc	attgggctta	780
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40 <211> 819

<212> DNA

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<400> 737

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	tcaacgaatt	tgtagatctg	atctgtgatt	ccatcggtga	cgacggatct	tcgcttacat	180
	cgtttgatct	gtcgcagatc	tgccgttttc	tatagatcta	gatctggatc	gtccttcgcg	240
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 <223> n = A,T,C or G

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 gagatgtcga gatctcagtt cttgtactg tttttcaacc attctaaata cttgtcgtc 180  
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55 <210> 740  
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5 <212> DNA  
 <213> Arabidopsis thaliana

<220>  
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10 <222> (1)...(818)  
 <223> n = A,T,C or G

<400> 740

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	agaacggatc	ngaagaagga	cttggagatt	ctgctgaggt	agaggaagct	cctatagagt	360
20	tcccaaggga	cattacaatg	gaagagnnng	aaccaaccag	actcaacca	aacaggagat	420
	atgaggatca	gatggttcca	agcattactt	cttctttgat	cagacctgaa	gaagacgaag	480
	agtcgtctct	taatttgaga	aattcagtag	gagatagcag	agcagagggt	ccaaggaaca	540
	tggttaacac	caaccaagct	cagcagcgga	gagcagaacc	ggcttcaaac	caagtcactg	600
	ctatgattcc	agaatttaat	atcagaattg	ttgcagagag	cactgaagac	tcaacagcgg	660
25	aatcttccag	cagcgggaag	agagaaagaa	gcggaggcat	agtccccgag	tggtctccag	720
	ggtactcaga	gcagttccct	agtgaagaaa	atggtattgg	aggaggaagt	acaacgtcta	780
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	gttattcccc	tttttgtaca	agcttccaag	tottatgaac	ataaaaagca	aacgcaaatt	180
	tcgtgcgttt	ttgtttcctt	gatgtcaaac	gtagtttctt	gccaaacaaa	ccacataagt	240
	cagcaagcta	gctgagatcg	atatccactt	tttccggtac	acacctttct	ttttggttct	300
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	attccgtgag	cgcaaagtga	tgagcgttcc	agtatatgga	gttcgttaga	cttatctgga	420
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	gtcgattacc	ctgttcatca	aaggatggat	ggtgaccgag	actagcggat	tcgccgcagc	540
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45	catgaactgc	tttgacatgg	cttagacctt	caacaacctt	agggaactgat	tcacactcct	660
	cgttaccgtg	acctaaacat	ccatatcttc	cccaacccca	agtgcacact	cttccatcct	720
	gacctaccac	cgcgcatgc	caagcaccgc	ctgcaactac	cctagggttg	agattcaata	780
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55 <400> 742

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      aaacatggaa gttcttggag tcaacagaga tgagtctaac agcagcaata gcagcagcaa    180  
      gagacattaa tccaaagaag caaacattga gccaatgcca tagcttttgc acaagactaa    240  
      gtcctatcatt catagcaaca agatacatgt gattcgctaa tatgaatgtg agagggaacg    300  
 10    tgcttatcgc tccggtaagg ctcatgaaat ctccgggaaa cggtaaaagc gcagagagaa    360  
      gagtgctcac cgcaatgtag ctctctcttg ctactgttct aaacaacaga ttcttcattg    420  
      ccaatggact tcctttgact ccatactttg tgtccatata ctcataagtc ggacttgcaa    480  
      aaatatgtaa agagataaca gattggagaa aagctgaaat gttagcgagt gctttgaccc    540  
      aaacaggccc actgacgctg tttaagagat aagtcgattg cgaggaccgc taagcccaat    600  
 15    atccgatgaa tgtaaccgcg tacataggta aaacaccaac agtgaattga aaatacagag    660  
      ctttcacatc gttttttaacg accggttgct tcaccgtggc ctgtatttcc gggagcattc    720  
      ccgtgttgaa tgcgaaaact agatttgcag ctgctcctgt tatggtaaag agtttgttta    780  
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      attgagctct atcctcgaat tctctatta gcttggcaac tttatctatc tccggcacca    180  
      cattcttcac tgtttcatct gacaaannnc gggtggccca tctataaaga gaaggagttt    240  
 35    tnnattegtc tanaatnnnn ncttttttaa gcttctctct agctttcaag aaaacaaaaa    300  
      agcttccaag gcaaatgtct atgaaccgga ttgtttcacc gccgaaaaaa gattttcctt    360  
      tgcttagagc aataaacgca gcttcgagtt gcaacaacc ttcttccact tcttccatgc    420  
      cttttgcttt tgcgtcttcc gatttagcga ccacagctgc catcaaagcc ggaaaccact    480  
      tgtcatcaac gaaggcagac cagaagcgag caagggcacg atcatgagga tgagaaggaa    540  
 40    gaatgaacga tccagatgag ttccacgtct cgtctatgta ttcaacgatg tttagagact    600  
      caciaaacga tttattactg tggatgagaa ccggcacttt cttgtaaacc ggggttcgatt    660  
      tgagaagaag ctactctta gatccgaaca agttctcttc aacgtaatca taatcaaccg    720  
      atttgagacg aagagcgatc tttactctta tcacgaccgg actgtaccat gttcccaaca    780  
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      <213> Arabidopsis thaliana

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      atcacattat attgaagaag agttggcatc ttgtctccat ccaaacgcaa cgtgtcagta    180  
 55    gtgaaatata aatcagacat gtggggatga gtaacctaaa ggattccgat tcagcctccg    240  
      ccgtacgagc tcgattctgg tgaaagagtc accgtcgata caaaaatcga aacatgaatc    300

5    tttgagtttt caccagaaat aggacaatcg aaactccaaa ctgaaatata gcagctaaag    360  
      gaattgtgta atatgcttcg aaatcttctt cttctcttca attataaaact gcaaactctta    420  
      ataataattc ctgtaaaacc aagcttcaaa caacatgagt cggataatca acagtttaag    480  
      caacatagca cctaaatcgt tatcaccaac acataattgc tgaaattatt gaaaggaaaa    540  
      caaagaccaa aaggtgagag taactcatct atggccaaag taaaactaaa atccgaccaa    600  
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      ggaggtgccg aacgagagcc cgattaaaac gggacgtaag agccgaacat cgctgctgtg    720  
      aaagtcagac gatttcggag tagagccgac caatcaacgc taaaaaagcc attgatgtcg    780  
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      <213> Arabidopsis thaliana

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      atcaccagaa gcataccag gcttatgtta ctaattacaa taatgctctt gagcagcttg    180  
      atcaagctgt gaacaaggga gatgcttcca ctggtgttaa gttgcagagc gccatcaaatt    240  
 25    tcaacggcgg aggtcatgtc aaccattoga ttttctggaa gaaccttgct ccttccagtg    300  
      aaggtggtgg agagccacca aaaggatctc ttggtagtgc cattgacgct cactttggct    360  
      cccttgaagg tctggtgaaa aagatgagtg ctgaggggtgc tgcagtgcaa ggctcaggat    420  
      ggggtgtggct cggactagac aaagaactga agaagctagt tgttgacaca actgccaatc    480  
      aggatccatt agtgacaaaa ggaggaagct tggtagctct ggtgggtata gatgtttggg    540  
 30    agcacgccta ctacttgag tacaataatg tgaggcctga gtatctgaag aatgtatgga    600  
      aagtgatcaa ctggaaatat gcaagcgagg tttatgagaa ggaaaacaac tgaatcgttt    660  
      acacgatgac ataaggagat gaaccagttc cagctcagct tttgttttaa ggttgtctga    720  
      aacaaactta cagtgtctct ttggttttta agatttgctc aactcagctg tgtggtacgt    780  
      tgtttttaca tgaaagtttt caagaataaa aaaaaaa    817

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      <212> DNA  
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      <223> n = A,T,C or G

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      aatcacccac taggacaaaa aagaaaatac atgacaaaac cttattaagg accgaatttt    180  
 50    aatttattag ccgaatatct tatgacttat gcctagccgc gaaccgggtt acaagagcca    240  
      atgcattact agtaactcga gccacatgaa ccactcttct tctaatacgt gatttgacca    300  
      caccgtccat aacctttcca tcgaaacat ccagacacgt tgtctcatcc gttaaggcag    360  
      cactaaccca agtctcaacg ttacttagtc tccacaagaa ctctgtctga tcacgaccag    420  
      atcgaccaac ttgcttcaac tccctcatcg actgagccaa catctctaaa ccgtctccaa    480  
 55    gattttcaac acaatccttc acggctaagt actctctcct tttgattctc ctagcttttag    540  
      tcagcttccc tacatagatt gtcgtggact gaaccgggac tagagtaacg gctaaagcgg    600

5	tttgagctaa ctgggttttcg ttgcnngga ttttgtctgc aaaagcggca aggcatttga	660
	cgcagagagt ttggtaacgc gtgannggc atgatgagac aatgaagttg atgctgctgc	720
	tagggtttgg tgatgatgaa ggtttggcta tgggtggattg gcagagtagt ggaagaaaaa	780
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	atgctaaaag ttatctgcag ccaaagagat cggttccgag cagcattacg ggaaacagaa	180
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25	aaagcagaca acgtcaaaact ctatgggaaa atccgttatg tccaagacta taaccatgat	300
	aaagtgttt cccgaggatc gaaaaagtat gtggaagatc ttgaaagtgg attcagctcg	360
	gatgtcgaat caaaatacaa gaaaatttac gaagatgaca tcaacccttt tgcagcattc	420
	tcgaaaaagg aaagagagca acggatcaaa gatttgggaa tcagagatcg gattacgcta	480
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30	ataggattgc acgtccttgt cttcacttgt ctctaccgta tgtctgctta cagttatctc	600
	agccatggag cagaggagac tctaattgaca gaagcaacca caaaccttnn nncgggtctt	660
	taagctctca ccctagggac ttattcgttt ttggtcggtta tgttctttct tgtccttgta	720
	gtgttcctg ggcaattcta aaacggttga atatttgtac agaggggatcc aaatcactcg	780
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	ctcaatcgaa gctaaaggga ttatatagac aattattgtg tgtgtttgaa tataggacgc	180
50	agatataatg tggcttagag atccatttcc tcggttatat ccagatggag acttccaaat	240
	ggcgtgtgac agattctttg gaaatcctta tgattcagac aattgggtca atgggtggtt	300
	cacatacgtg agatcaaaca atcgaagcat tgagttttac aaattttggc acaaactctg	360
	tctagattat ccagacttgc atgatcaaga tgtgttcaac agaataagc atgagccttt	420
	tatctcagag attggaatcc aaatgagatt ctttgataca gtttactttg gtgggttttg	480
55	tcaaacgagc agagacataa acttgggttg cacaatgcan nntaattgtt gtattgggtt	540
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5	gtcagnnnca	gtgcagaaca	cgacgtggag	tgnnnctatg	aagtgttttg	aagattgaga	660
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	taacaaaaaa	aaaagaacaa	aagattaaac	taaaattaag	attagagaag	acatcatcat	180
	ttgcaagtc	aagtcccaaa	ccttctagct	caaagagagt	ctcttcacgt	tccacattcc	240
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	tgacttgcaa	ggacactcaa	caatagccac	gcgaaagaaa	aataatccaa	aagaaaaaaa	180
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	catgcttcac	tgctgttgct	gctggtatcc	accaggctgc	tggtagtttc	catagccgcc	360
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 55 <213> Arabidopsis thaliana

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    cattgattaa taaaagttaa agtagctctt ataacaccat ctcatattggg gcaggtaggt      180
    tcgaatgcga atggaccaac gttgtacaca ctgtacttga accatctcat gatggtcgag      240
15  gaaaatcctg gtttcaagac cggctttaga acggagccct tgcctccatc gtggagtgac      300
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    gtctccgata ttgagttctt cttgttcttg cacacaagtc tcaccaccgc atctttaacg      480
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    ggtttgatcg gtgggagagt tggtaactta atcggagctt tggctgggtg gagagttggt      660
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    ggaagagttg gtagtttgat tggnggtagg ggaaggtgtt ggnnnaggct atggaaggga      780
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25  <210> 752
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    ctgcttacga atgatatgag aggttcttgg tacaagagtg tttcctctgt ttttggtctc      300
    agaccacgga tcagagggtt gttattcttc attgttggtg ttgtggctct agttactatt      360
    ttagcaccat tgacatctaa ttcgtatgat tcttcgtaa gttcgacact tgtgccgaac      420
    atttatagta actataggag gataaaggag caagctgctg ttgattatct tgatctgagg      480
45  tctctttctt taggggctag tttaaaagag tttccttttt gtggtaaaga aagagaaagt      540
    tatgtgcctt gttataacat aactggnnnn nnnnnnnntg ggcttcaaga gggtagaggag      600
    ttagatcgac attgcgagtt tgaaagagag aaggaaagat gtgtagttcg tcctccgaga      660
    gattataaaa taccacttag gtggccactt ggtagagata tcatatggag tgggaanntg      720
    aagattacca aagaccagtt tctttcttca ggaactgtga caacgagggt aatgttgctt      780
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attaacaaa tctcaagatg gatcctccgg agaattaaga ttcgtcgttc aagatacacc 180  
cggttaagcc caaacccccc gggtttgcaag ccgagagcca tcacaaaact cataagttgg 240  
10 ggtcgaagtc tcacatccca cagegccagg tttattgggt ctaaagtctc caattcaggg 300  
tacataccaa ttggtcaaga acccattcga gaaaagcccc acccgggttc gaaagggtcac 360  
tcggcgggtt atatcggtaa aaaagacggc gactttcaga gagttttggg gcctatcggt 420  
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15 cgaattgaat ccgggtcggg tttctgtaaa ttccctgga gccggcgggtg gcaataacga 600  
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ttttcacttt tgttactatt tttacccttt tgttagatat gtacatatcc tgtatgtgaa 720  
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30 cgcagaaaat ttgagaaaag ctttctctga ggcagaagct agaaattccg agctggcgac 240  
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ttcgccaacc tcgagaacta tggccacacg atcaaaaaca atgcttttac cgagaactcc 420  
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35 acgggaacca gagtctgagg agaaaccaca gaaacatctg aatgaaaagc aacaggaaaa 540  
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tagcgtcttt gaccgtatca ttcaaacaat agctacagcc attgaagtgc cagataacaa 720  
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45 <213> Arabidopsis thaliana

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50 aagacatata tagagtcgac atgggtttttg ctctttttta agtactaagt gattggtaac 180  
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55 ctccatagct cacttttact ggatcagctg gataacaaga cgacattcca acaatgtaac 480  
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5 caccgttctc tcggtataga gcaccaccga taccaccagc gtgctgggtga gctaccccgt 600  
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cgccattgggt tttgcacgggt ttcacctcgt attccacatg gcaa atatgt tcttggctat 720  
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25 attagagagt ctctatagc aaaccattcg tcgctaatac ccaactgtct gttaaaacct 540  
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35 <213> Arabidopsis thaliana

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40 aaaacgaact ccctcaaaga acacaaagct cacacaaacc cccaagtca acatctcctt 180  
gtttaaacag gtagtgagta cttagcggaa acctccttc acgcagcacg gctactaatc 240  
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ccaacaagat actcggtgaa aggaagggtg gccaaatcag ctagactcac aaaatcacca 360  
gccaagtatt cgttcttaga aagctgagct tcatagacat caagcacttc tgcaagcttc 420  
45 tcttcaactc ctttaataac tttctcatca gcagggaac ccataagtgg tgcaagaca 480  
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	cagaacacaa catgtcaata aacctgtaaa cactctctct aacttggcaa tagtctcaca	180
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	aacccttccg cagatatgct ccgcctcacc cgtgactgca ttccgatctc tatcctctgt	300
	ggaggatccg gagagaagca cacaacaatc actgtcaaact tgtcacatgt attccgttta	360
	agggcctccc tcacaagctc tctagagcat ctctctggat cattatgaat catcagttcc	420
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15	attatcaaga actcgtcgtc ttcactcagg tctgtctctt gcaactctgg ctctgggctt	540
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	gatagttgcc cgttgaggta accgtcatac acaactccac ctaacttttc tattcttact	660
	ttctcggctg tgcagtttgg tttgtgatct ttggacaact caattgccct acctctctc	720
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30 <223> n = A,T,C or G

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35	tttcaactca ctctaactatg ttcttgtgac taatcgattc ctaataactcc agtgcaaagg	180
	gatggaagtg aaatcagcct aaatgtttct taatcattgt ccatattgcy tttgcgggta	240
	ataataacta agtagcttct tgaagagagg aacaatcgca accatagcaa gttggagctg	300
	ctcggagctg ttaacacgaa cacttacttg ccctgctcct ctattgttca gattagcacg	360
	agcaattaaa ttagaggaac gtccaatggg aacctgagac tgtatgttcc ctccaatagc	420
40	aagatcaccg tgccaatcca ttacagaaag tccaagagta gtcaaaaacc gaccaagcgg	480
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	agtcatagct ccaccagaca ttacgattct gaaccattta ctagcaataa acttatcttc	600
	gactttcaac cccgcagaaa ccgaatcacc caagtgtgtt acagaaagac cagctgcagc	660
	cttgtttctc ctgaaattgt taaatctcgt ttcgcttcga agagtataag ccaattcctt	720
45	tccaacagtt tgcatgtcga aacctagggg agttgattta ccctctccat gtttaaccga	780
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15 aagtaaagga gtcgatgag caagccgccg ccgtgatgag agcagctagg gctgagatcg      540
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agggaaggaa gaagggtggag gaagagctaa aagaagcttt ggcgagcttg gagagtcaga      660
aagaagaaac cattaaagct ttggattctc agattgctgc tcttagtgaa gacattgtca      720
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20 ctcaaaactt atttacaaga aattactgta aatc      814

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<211> 814

<212> DNA

25 <213> Arabidopsis thaliana

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30 tgatggaatg ggacaggata aaattctaag actcagaagt cgaagtcgca cttgatcggg      180
aaaacaatgg aggtagtgtg agttccgttt gaggtactta aaggaagcct tagatcatcg      240
caatcaacct taggcttaat cctcctaaac ttcaagtccc caagcttaaa cctaacccta      300
agcctgaact tgatctctat attgtatata ccgatatatc tctccgcggt taaagtccta      360
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35 gtgtttttgt gtccttgata gaaaggagtt aacgtgatgg tactaaaccg ctttccctcg      480
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acaggaacag tgagggctag gttatacctt aaaatgttgt ccggggaagt gtggtcaaag      600
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aagatgagag cggctacgcc gaggatgaca ataagggata tgattacttt gacgaataag      720
40 ctgaggaggc agcagccaca gccacgaccg tgcccacgtc ggtagtagcc tttgggagct      780
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tggtggaaga aggagcatct ggctgctttt ccggtagtgc attttgaaac acaggcagtt      180

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5	ccttgatga	ttcgtaacat	tttgcaagat	ttgggtatgg	ttccatgtta	atctggaatc	240
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	cagtcgcaag	tttcccagcg	caattcacca	acagtttctc	gagagctgta	aatccttttg	360
	tgatagcatt	attaacccaa	gcagtcttct	cctccacatt	tatcttttcc	tcgatatacc	420
	taataacagc	cagattttga	tgaggtctgta	tgccagacaa	gacaatactc	attgcttggg	480
10	aattcacagc	tcgtttatgg	aggtcacgag	gtaacaaagg	tggttcaggg	tacttctcat	540
	ccagatactg	tcaatccaaa	caccacaaaa	ccgaagatcg	atgaaatgtt	ctttttaatc	600
	aacaatacca	aaaaaaagtt	aaatggatgt	gttactactg	accattatta	tcgcaaaaga	660
	atcattaatc	acaacatctc	catccaccag	agctggtaca	gttcccattg	gattgatctt	720
	cttgaaatct	gaatcgaaat	gatcaccctt	gagcaaatte	actggtatat	actcataatc	780
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<212> DNA

20 <213> Arabidopsis thaliana

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25	gaccatctct	tatcgacaga	agctgtat	gtctgaccaa	cgtagtgag	tggtggttcc	180
	gatttttctc	aggaatccga	gcataatct	ttagcataag	ttgtgaggg	gatagtgctt	240
	tgcacaaggg	aatcaagggt	agcttcatat	ccaggtctga	catatatcac	cgaaggatca	300
	tcgccgccaa	tttctggcag	tggtgaagct	cgattttccc	ggcttgatgg	caaaatccag	360
	acgggtgaaac	ttgtatcgat	cagtcgagga	tgaagagaag	agcaaatgct	gcactttctt	420
30	gcgatagaag	tcattgattct	tccatctact	gagaggccca	tgctcgcgtg	cctttggaca	480
	gagaggtcga	cagagacacg	ggaattggga	gggccatctt	caacaaggtc	ttggagttga	540
	agatcacgca	gagagacatc	gtactgagtc	ttccaatttc	cattccattt	gccttacta	600
	ggagataaag	tgatcagacg	cttactgttt	tttgagctcc	ctcctccatt	aatggctgcg	660
	gaagaagctt	ggtgtttctt	ggagagggaa	gaaaagggaa	ggtgatgagt	attgccggaa	720
35	actttaatct	tcgagttcaa	aagatttgga	gagatcaaac	aacgtacatc	catggatgat	780
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	aatcaccacc	gatttttctc	gccgattaaa	gcagcacaat	ggagaaatca	gaggtggtgc	240
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<400> 767

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	aacaatgcca	acggttcaga	ttcagacgag	ggtggtgatg	atgatgggat	cgatgctgca	180
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 <223> n = A,T,C or G

<400> 768

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	tttatagcat	tcaacttata	tgcaagaaca	gatttctagc	aggggagttg	atccttgtag	180
	atgttcaaac	ccgangtgga	tgcaagtaatt	gggcatagnn	tgagagaaaa	cgaatactgt	240
	gcaggcgga	tcagaaactt	atcgtgaaca	catggagtcc	agctatcatc	tcccccaaga	300
40	cccatgtgtt	tgtggtccag	atgcacctcg	atgttttnnn	nnttgataag	atcctcttca	360
	tgcgttgcac	ggtgaagctc	accggttgta	taataactag	cattcatttg	cattagagaa	420
	gagctaccat	atgttggaagc	atatattcct	acaccatcct	tgtttcggaa	tgttaccac	480
	ctaacatctg	ttctacctcc	attttctcct	ggaacaatat	aagggaacatg	catgtctcca	540
	acattgtgtt	catatatcgc	cacatgggct	gctgcttttc	ggtctgggta	acactcaaat	600
45	ggacctttgc	cataccattc	tacacggtcc	agtgtttttt	caatgtggaa	ttctatacct	660
	acacgtggta	gcggtggaag	atcagagttt	ggttctacaa	accaattggg	gatgatattct	720
	ccggaaccat	agatcagata	gtcacattg	actttgaata	aggcatctga	ctttgaagag	780
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50 <210> 769  
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 <212> DNA  
 <213> Arabidopsis thaliana

55 <400> 769

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ctaattgggtt gggttacaaga tgccttgaag aaggggtttc ccttgaaact tgtcgacctt 180  
ggagctcaga aatgtgaagc ttttgtggag acgagctctt ttcataatcaa gatccccctaa 240  
cttcgcagcc atctccgtca ttttagctct ccactccttt atcttcttct ccttctctcc 300  
10 cagttctttc acctgtttct cagtttcttg tttcgcaagt aacacatctc tctccacac 360  
ctctttctcc actacgtca tcttgtgttc atcgtagtgt tttaccgect ctacgatctc 420  
ctccaggaca ggcttgagcc aacctgcttt gattttcacg gactcaatgt ctttaacaat 480  
cgctaccatt tccaccacgc ggctctcctt gagatacttc aggggagttg tttggagttc 540  
gaataccacc gaggcaagca tgtcgaggta gtaggatcgt gtagcaagcg attgtagttt 600  
15 ggaaccagac gcaatgtcac cgtgcttctg gagtatgtgt tgtagagtgg tcgagacgct 660  
agctctgacc ttgtactgtc ccacagaaac gtaagactca gatagaatag actgcatcac 720  
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20 <210> 770  
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<212> DNA  
<213> Arabidopsis thaliana

25 <400> 770  
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tgaatcacac aaaaacaaaa gaagaagaaa gaaacagaga tgaattgtta caaagatata 180  
aattcaataa aggcttagaa acatccacac gttgcctttg gtactacacc agtggctcta 240  
30 tacttagcac ccatttcttc agctttgaga agctcttctc ctttttttagc ttcaaccatt 300  
gctctcttct cttctgctaa cttgtggatt gcagctactt tgttcttcat tttctaccg 360  
tactgcgctt ttttcttctc taatttttcc tcatcttcc taagttgagc ttctacggct 420  
gctttcttgc tattttccca agcatgcaca tcagagatct tcttttgtgc cctgtttctc 480  
gcctttgact tctcactctc tttccatgct ttgatgaatg acgttttctt ctctttttcc 540  
35 aagtcggcaa gtatcacatc tctatcgcc gaaccagatg aagctttctt aggtgtatgc 600  
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atcttctcat ccgcgacttc caccggagca ggagtcggtt ccttcgccgg agctaaaaca 720  
gccggagatt ctacgtcaac cttactcgtc ttttgcctct ccgccattgt ctctcagccg 780  
aagaagaaga acagatttta tcggacgcgt gg 812

40 <210> 771  
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<212> DNA  
<213> Arabidopsis thaliana

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atcgtggatt gttcgatttc ttgggaaaga agaaagacga aacaaaacca gaggagactc 180  
50 cgatcgcttc agagtttgag cagaagggtc atatttcaga gccggagcca gaggttaaac 240  
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aagaagggtc agatggtgag aagaggaaga agaagaagga gaagaagaag ccaactactg 360  
aagttgaggt aaaggaggaa gagaagaaag ggtttatgga gaagttgaaa gagaagcttc 420  
ctggacacaa gaaacctgaa gacggttcag cgtcgctgc ggcaccggtg gttgttctc 480  
55 ctctgtgga agaagcgcac ccagtggaga agaaaggat tcttgagaag attaaggaga 540  
agcttccagg ataccaccct aagaccaccg tagaggagga gaagaagat aaagaataag 600

5 aagattatca ttaaagatat taagaataat gatggttgat ttgctttggt tttttttttt 660  
 ttattgtgat gattgatcat cttttgcttt tgtgatgtgt aagtttggtg gcttttttgt 720  
 tgattacaat ttcttatttt ctcttgata tggtttttaa aaacaaaaga tctcaaggta 780  
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10 <210> 772  
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 <212> DNA  
 <213> Arabidopsis thaliana

15 <220>  
 <221> misc\_feature  
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 <223> n = A,T,C or G

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 tctagtattt atcatgtcct ctaagacaaa cggaatacac aagtatgcat acatcaagac 180  
 atatattgca tacataaatt aacacataag tttgagcata tctcttacta acttgatca 240  
 25 cagtggaggt ctctccaacg agacataccc gaatttgctt ttgcgaaaat ccgttagtat 300  
 tctaaatgca gcttgatgac tatctccacc aaacaaatta agaccaagcg tcttcacaaa 360  
 tttttcccg cagttgcctt ctagctggat cttgtatcgg ttgtaaagag cctttgcgcc 420  
 tacttctgga atccgtgcta acatnnncac aaggattcca gcaacatcag tgaagtcata 480  
 agctttctct ccaatgtcat cacaaattgc cagctttata gcagctgctt gatcatcgat 540  
 30 acgcatagga agcattccag gtgaatctaa gagatcaaga tctttcccaa gcttgaccca 600  
 tttcatttct ctagttacac ctgggtcttg agctgctgcg caaatttttc gtttcaatag 660  
 acgattgatc agagatgatt tcccaacatt agggatcca attattccag ctctaactga 720  
 tctagggaga agtccttttt ctgcgcgttt cccatttacg tcacctgcta aacttttggc 780  
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35 <210> 773  
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 <212> DNA  
 <213> Arabidopsis thaliana

40 <220>  
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 <223> n = A,T,C or G

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 ggtaaacact aaggtgctcc ttctcctgca ggtccgggtc gagcattcaa caatgggtgc 180  
 50 agagccttca cgacaatact catgtttggt ctgaaatcag cttcgtattg tacacacaat 240  
 gcagcaacag cagctaactt agcaacagct tttggagggt aatctcctcc cagtcttgaa 300  
 tcaacacact gcttaacctt gtcttcgctt agctttgggt tagcccatgt gactagactt 360  
 tgctggcctc gaggcaatgt atgatcaaca ggctttcgac ctgtaagaag ctcgagcagt 420  
 acaactccga aactgtatac gtcaactctt gcaactcaatt gccagtcatt tgcatattca 480  
 55 ggggcatggt aaccaaagggt tccaagaaca cgagttgaat gaaggcgtgc tgccatatca 540  
 ggagcttgat ttgagagatc aaagtcagct atcnnnnnna catcgttatc aaagattaga 600



5 acattgctgg attttatgtc acggtggatg acatgtggat ttgccttttc atgtaaatac 660  
tcaagccctc ttgctgctcc aacagcaatc ttcactcggt gatgccacga caagagtggg 720  
ccaggctttg ctcccttcac acctttttct ccgtaagaa tatcatgaag agatccattt 780  
tgggcaaact caaagacaag cggacgcgtg g 811

10 <210> 774  
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15 <220>  
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<223> n = A,T,C or G

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cttagatacg aatgatcagt aaataactcc tatcatccaa ccaaactgta tcttttggtt 180  
ggagtaatta gagatcttac ttgatttaat ttagaagaat gataatttag agaggcacag 240  
25 ggtaacggtt gatgcaatcc acccaaggat tggtcctggt tggcttcttc accttcctca 300  
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tggcagcagg tgagaatgct cggcggagca aagcagcaaa gaagagaagc tgctcggaga 720  
aaggtaggac aagaggacct aaggtagtga tgtttgtctt gagagcttca cctccaactt 780  
ccattaagtc tctacttatc cggacgcgtg g 811

35 <210> 775  
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<213> Arabidopsis thaliana

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45 gaactcataa actgttggtc aaaaagggaa caagagaaac attgtcaatc taattcagtt 240  
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caagtcagct gagaatcctg ccttagccat gagcccaaca gatgtgatca acatcaccac 480  
50 aaagtaaaat acaaaaccaa tcaagccatt gaatccaatt attcctgcta agacaccagc 540  
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tgcaactgaa gttgggtatg cactcatgat atcctttgat ctcttctcag atgaacccat 660  
ttaagataac aacaataatt agaaacgaga gtagtaagag gaagatcgaa gtagcttgct 720  
ttggtacttg ggatgaattg aatggagagg atgagccaat ttgagagaga acaatcagac 780  
55 gaatatcttt aagttcttta cggacgcgtg g 811

5 <210> 776  
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 <212> DNA  
 <213> Arabidopsis thaliana

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 actatatggt ctggataagc ttttattgaa caagaaggta gcaacaacta ctaaaagagg 180  
 ggtaggcttt tagggaaacg aacctgcac cattgcttct catacgtaac caaatggctc 240  
 15 caacctattt cctccagcaa atccagttta agttcgtaga gtttcttatt cgcagtctcg 300  
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 agttctttga aattctcttc gaatttatcc ttctggttac tttcttcttc tcttcacct 480  
 tcttctcac ccttcagatt ctgattctc gccatggcta accctttctg gtatagtgc 540  
 20 tccgccagtt gatcacgtgt caacctcatt ttttcttca atttctctgc ttcacatct 600  
 tctggttcag ttttgtctag caagaatctt gctagctcat ctacgtcaac actgcgtact 660  
 acttcgtttg cagcttctat aatctcttcg tgatggctga ttttgtcccc agcatcagac 720  
 cgagacagta aaccttcag gatcttagct agtaatggag tatagtctgg gtattcagac 780  
 ttgagacagg tacacaactt tctccactct g 811

25 <210> 777  
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 <212> DNA  
 <213> Arabidopsis thaliana

30 <400> 777  
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 gaattgaagc tggttggtga gtatggtctg cgtaacaagc gtgagctctg gagagtgcag 180  
 35 tactctctta gccgtatccg taatgctgct agagatcttt tgactcttga tgagaagagt 240  
 ccaagaagga tctttgaagg tgaggctttg ctccgtagga tgaaccgtta cgggcttctt 300  
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 cgtcgtcttc agactattgt gttcaagtct ggtatggcta agtctatcca tctactctcg 420  
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 40 atggtgagac ttgattcaca gaagcacatt gactttgccc tcaccagtc cttcggtggt 540  
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 ggcggtgatg cagacggtga tgacgaagag taaatctgaa gtgcgaccgt ttttagctatg 660  
 aatcaatctg ctttttgata tttttagta agcaactttg ttgttcgttt tcagaggatt 720  
 gttttatggt ttctttcttt tactctcgag attgctaaac ctttgggtta tcatctattt 780  
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 50 <213> Arabidopsis thaliana

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 55 <223> n = A,T,C or G

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 gctgccccaaag tttatcaagg ttttcccaag agattacaaa cgtgttttat cagccatgaa 180  
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<210> 779  
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 35 gtcagatgtc caaacacaaa gccaggaaca aaaaaccttc tcaaacact ttagtagacac 240  
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 aagaattttc atcgatgcag agccnaaata gaacgtgtaa cctgacttaa tataaacgga 360  
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 aacactatct ttgcaacat cacaagaaat gtttcctttt ctagaatatg atgtggagat 660  
 gaataaagga tgttcatgac ttttgtgggt gaaacaatca ggaactaaaa tgcacgaaa 720  
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<220>  
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 <223> n = A,T,C or G

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aaatgaagtc cattagagat gctgaggcac gtcagctaga ggaagaaact gcgagaaaag 180  
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10 aggagctaga aagacaacta gatgcaaaaag aagcgtcttt acctaaggag cctcaagctg 300  
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aaaaactcttt aattttcaag ttattttntt tatctttctt tatacaaaaag aaaaagtatt 660  
tgttgagggg ggaggattat atggtttata aaaccgtcgt cgtttagtcg tttcagttgt 720  
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<211> 809  
<212> DNA  
<213> Arabidopsis thaliana

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30 atatctgaag aaagtgacaa gaagaccaga aaagagagag gtgaggtgaa aaacggtttt 240  
ggtgcatggg cctctctagc gagcgtcctt ggacaaaaga ccttgcgctt caactttcct 300  
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cgtcccaatg cacattgaca ctactccaaa acggcagctt ttaccacggc gtttcatctc 420  
gtgcaacaat gtagcaacac aacgcgctcc tgtagcgcgc aaaggatggc ctatggccat 480  
35 tgcacctccg ttgacattga ttttctctgg gtcaagtccc aatttgttac ggcaataaac 540  
aaactgagat gcaaatgcct cattgatctc aaacaagtcg atgtcatcaa gttctaaacc 600  
agccgcctta actgcagcag gaatggcaac tgctggaccg ataccatga ttgcagggtc 660  
aacaccaact gcagcaaatg tcttgaatac accaagaacg ggaagtcctt tttgcattgc 720  
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40 agcagtagtg gtgccatcct tcgcggccg 809

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<212> DNA  
45 <213> Arabidopsis thaliana

<220>  
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<222> (1)...(809)  
50 <223> n = A,T,C or G

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55 caagaaatgg cgaattacat gtcggaagca gcacagctca gaagaggtct aaagcctaaa 180  
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	cttggatttg	agatgaataa	tcagcaaata	aacgaattga	tggcagaagt	agataaaaaac	360
	caaagtggag	ccatagattt	cgacgaattt	gtgcatatga	tgacaaccaa	attcggagaa	420
	cgagactcca	tagacgaatt	gtctaaggcg	tttaagatca	ttgaccacga	caataatggg	480
	aagatttcac	ctcgtgatat	aaagatgatt	gctaaagaat	tgggagaaaa	tttcacagat	540
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&lt;211&gt; 807

&lt;212&gt; DNA

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      tttccgaccg acgaaaaaaa aagataacaa tttacacaac taattgaagt ttagattcaa    180  
      45    actctcactt acaagccaaa attttcacat ttaagtccat ttaaggaaac ttcacacttc    240  
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 25 agcttaccnn nagcgagtct ccatggtggt cctcttggtc ctgaagctaa agtctcacct 540  
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&lt;211&gt; 801

&lt;212&gt; DNA

35 &lt;213&gt; Arabidopsis thaliana

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&lt;210&gt; 814

&lt;211&gt; 801

55 &lt;212&gt; DNA

&lt;213&gt; Arabidopsis thaliana

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15 tcatcgaacg acgatcttta accgagtcca ccataagacc cttgtttgta accgtagcag      240
aacccttttc ctcacactac tctgctacaa tcagcttttag cgaaaccac tcttctattg      300
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20 cctatcaacc gtgggatcat cgccacgttt ccatnnaaac acatgtcagc tgttccaccg      540
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gacccgcctg catcgggtct gaaaaccgaa ccggaaatgt taagcttctt caaaccaaat      720
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25 tcaggaaaag tcaacaaaga a                                     801

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<212> DNA
30 <213> Arabidopsis thaliana

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<210> 816
<211> 801
50 <212> DNA
<213> Arabidopsis thaliana

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gatagccaga gttttgcaac accggtggat ttggtccata aaacgaaact aacattcaaa      180

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<211> 800

45 <212> DNA

<213> Arabidopsis thaliana

<400> 818

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<211> 799

<212> DNA

15 <213> Arabidopsis thaliana

<220>

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      atactcataa atgtttttct gttttgtact cggcattctt gtaaattaaa gacattatcc    780  
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      aaaacccaaa agccagccaa caccgctata gaagccggac gatgccagac atagagccag    720  
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<212> DNA

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10 <212> DNA

<213> Arabidopsis thaliana

<400> 825

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    caacaacaag ttcccagaag cagcagcttt cttcatgaac aaagagaaag atgattgtag      600
    agatcttctt gaagatggat gggacatctt tgacaaggag accgaacaag ttggttggtg      660
    ctgaagaatg aagttattgt acatataggg tacttaaatg ctaaaaataa atggattggg      720
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50  acttatggat ttt                                          793

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55  <213> Arabidopsis thaliana

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5  <220>
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   ttcagagaca tcaaaactat atcctctctg cagaaaacca gcgtggacga gttgttattc      180
   ccaagaggaa atgctctatg tatgttggtg tctatgtgtc tcatacttga tggatcttcc      240
15 acatgccagt tctgtatccc acagacatta aagcaagctc ccaaagcatg tttggaatgc      300
   tcaacatact gacttttagac ccgggaattt cggaccattt cacagagatt tcaaccattg      360
   gtatattaaa acgcttgcac aagtacacca attcaacatc aaagcaccac cttttcagat      420
   ggacgtttgt gaaaagtctc ctagcagcag cnctagtaaa catcttgaag ccacactgtg      480
   tatcccgaa accaggacca gcagctaata gaaccacaag atggaaaccc ttcatacagaa      540
20 agttgcgata ccatttcctt gtagcaagag ctttctcctc gagatgagca cgnnnaccaa      600
   atgcgganac ttgaacatca cctattttga aatccatata cttagatgct ggatttctga      660
   ttgaatattc ttctctggct actgcattga tctgattttc aagtttttct aggtccgtta      720
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   cttttcttat agc                                                    793

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30 <220>
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   aacacaccat tacaagcaaa gttgtgacaa aagacgaagt cgttnttgaa ccatctaaca      180
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   caaacaagac gtctacagag cgtgatacca tctccaatgg aaatctgaga gacctcgact      300
   cggggatcca aagccaattt tttattgaat tctataagag ctgctctata ttctctcata      360
   tgctccggaa ctccatcttc atcctccgcc acaaaaacca accacaaggt gttgtcgaaac      420
   gcaatgattc cccaacctt caccaatttt agaagcctct catggaagtt gacgtagctt      480
45 gatttgtcag catccgcaaa tgcaaaatca aactcacatt tgctcgttcac caattggtct      540
   aaggccttaa gaccatcgga atggataaaa ttaatcttgt gatcaacacc agccttctta      600
   ataaactcta gtccaacttc gtaagcttct ttatcaatgt ctatcgcggt aatacggcca      660
   tcttcaggta aagcaagagc tgtagtgaga agcgagtaac cggtgaaaac accgatctcg      720
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   tgcattccgac ggcgttaaga ggtacttata ctgactatgg aattctttcg gaagacgaac      480
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   ccaagaaatc taaaaccaa gaagttgaag gagaagaggc tgaagagann nngaagtctt      720
   ctaagaagaa gaagaagann nntaaggaag aggagaaaga agaggaagcc gggctctgaga      780
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   ttgccttaac cgcggttctg gcctcaaacg catatggtgc ggttgtagac atcgatggaa      180
35 acaccatgtt ccacgaaagt tactacgttc tccctgtcat ccgtggccga ggcggaggcc      240
   tgactctagc aggccgcggt gggcagccat gtccctacga tatcgtgcag gaatcttcag      300
   aagttgatga gggcattccc gtaaaattct caaactggag gcttaagggt gcgttcgttc      360
   ccgaatcaca gaacctcaac atcgaaacag acgtcggagc cacgatctgc atccagtcaa      420
   cctactggcg ggtcgggtgag tttgaccacg agaggaagca gtacttcgtg gttgctggtc      480
40 caaagccaga aggttcgga caagattcgt tgaagagttt cttcaagatc gagaaatctg      540
   gagaggatgc ttacaagttt gtgttctgtc ctccggacttg cgactctggc aatccaaaat      600
   gcagcgatgt cgggatattc atagatgaac ttggcgttcg tcgtttggct ttaagcgata      660
   agccgttctt ggttatgttc aaaaaagcta atgtgaccga agtttcgtcc aagactatgt      720
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45 tttgataaaa ca                                                    792

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50 <213> Arabidopsis thaliana

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55 gaagctgcta aacatttcac tattatcaaa gaccacttaa gtaatgagat cttcttatga      180
   tggtagaaaac ctcaaggaac actatattcct atgtaaaagg gggaaaaaac ttcaatcata      240

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5	attgtaaaac	ataatatgac	atcagcagag	aaagagagaa	ctaaattcca	ttctcaacag	300
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	ccacaacgca	acaatccagc	ggatttagga	agagaacgcc	aacaaccttc	accgtgatta	720
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 aatgttcccc ttgaaccttt ctctcaatct cttcactttc tctgcagttt tctccgaagc 480  
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30 <213> Arabidopsis thaliana

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<213> Arabidopsis thaliana

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      gtggcttatc aatctttatg tgaaaagctn nntgtgaact aagagttaga taggtcttga      720
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<211> 787

<212> DNA

20 <213> Arabidopsis thaliana

<400> 854

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30	cacagatgtg	tagctgctaa	gggtgatgat	gctccagaat	gcgataagtt	tgcaaagtgt	480
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40 <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

45 <222> (1)...(786)

<223> n = A,T,C or G

<400> 855

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	tgaattgcaa	acttttggga	gagtagtctt	tcctttgtat	gcattgcaga	tttgagctac	240
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	tacgtattca	tgtggcggct	tcaaattctt	ggttttggtt	gcgtacccaa	gtatcagctt	360
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	acatgattcc	cagccttttcg	tatcgctttc	gacgcaccgt	atgaacgagt	attgtgattt	480

5	ctgatcgggc	caagttctta	atgcgcaagc	ttcaagggcg	tttagtttgc	attcctcttc	540
	accatgctgg	caagtgcacg	tcagattatc	ggagagttcg	gcattaccaa	atggaaacag	600
	cttgagatca	gtgattgtgt	agagatcgta	gtcaaagatt	ttacctaggt	catcgacgat	660
	gaattcctga	caaccgggac	aaagtgattc	gtagtaaaga	ttgagcttca	ctttgccaga	720
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<210> 856

<211> 786

<212> DNA

15 <213> Arabidopsis thaliana

<400> 856

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	attccaaaat	actactctct	aagcgatctt	ctcttagcaa	gtaatcccgt	tagaactcag	360
	gctacgggac	aagacggagg	tgtttttggt	ttaaatttca	caggacaagc	acaaagcaac	420
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<210> 857

<211> 786

<212> DNA

35 <213> Arabidopsis thaliana

<400> 857

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	caatgcccaa	ttcactcctt	caaagaaagg	atggtgcttc	atctcagttg	caccacgctt	240
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	ctcgggcaat	ggacttacct	ggtttccagt	ttcgtttttc	attttcttgt	ctttcttgga	600
	tttacttgag	aaataacgtg	gagaaaagca	tggtgttagga	gcagaaatgc	aagatggctg	660
50	ttggatgcaa	gcagggttgc	cacaataacc	cgagttcttt	tgcccttcag	acgcaagaac	720
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55 <211> 785

<212> DNA

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<220>

<221> misc\_feature

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<400> 858

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<211> 785

30 <212> DNA

<213> Arabidopsis thaliana

<400> 859

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aagag 785
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50 <211> 785

<212> DNA

<213> Arabidopsis thaliana

<400> 860

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<211> 785

20 <212> DNA

<213> Arabidopsis thaliana

<400> 861

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35	taagtttgca	ttatatcaaa	gagtttttgt	gttggtttcca	ttagctttgg	atatgtttca	720
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<210> 862

40 <211> 785

<212> DNA

<213> Arabidopsis thaliana

<400> 862

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	gtccggaaat	taaaacccaa	gaaagaagaa	aaaagcagaa	aaacaaggga	taaaatcaaa	180
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	gcggagtcgg	tgcaaccgaa	caagggaagc	ttccacattg	tccagtaccg	tccatcatag	420
	tatccgggtg	agttaccgtg	ctcacggtac	acaaatccgt	gctccaactc	gaattcaaca	480
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<223> n = A,T,C or G

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30 aaatgtagtt ttacttttat gttccagttt ctttctctt ttaagaatat ctttgtctat 720  
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55 <210> 865

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   aaggccacaa ggaaatcgcc ttgataagca agagtcttact gaacttgtga agaggggttc      180
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   ttatttcatt tacgaatcgt ggagtaaagt gttgttgaa attgttgaaa atgtttgtta      720
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<212> DNA

<213> Arabidopsis thaliana

<400> 868

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   tccctcactc tagacagaga gagtatccag gtaaaagaca cattagcact gaaatatgca 420  
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	agcagtgcaa	atthtgatggg	gatcccaaat	acaatcatag	acaggaacat	aagtagcaga	660
	ccagtggcta	aagacgcggc	gaatccgtac	atthctctggg	tgggtggagag	agcnnagaga	720
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<211> 774

<212> DNA

20 <213> Arabidopsis thaliana

<400> 898

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25	aagggagaga	agatcaaaga	gagaagcaaa	caaaaaacgt	cctaaatctt	gattccaaaa	180
	atcaccatga	tccatgatcg	ttttgctttt	caatgttctg	acaaataaac	aattcaaaag	240
	agttttggtta	ttgttaacta	tggtgtgcat	tttggttttag	tagatgatct	tgatcacatc	300
	gtcagatggt	gtcccatatt	tgthttattcc	tcattaaaaat	gtacttattt	aaagacttgt	360
	tgtgtgttaa	aaaaaaaaaac	aaaggatcca	aactttgaga	atctaaaaaa	catttttcat	420
30	caacatcatt	ttgactctgc	ttttcacttc	ttgtgctgag	ccttgagttc	ttttaccttc	480
	tcttccgttg	ccttcaatgc	tttcccatag	atagaaatca	actcatcaat	ctcttcagg	540
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	tgcttctggc	actcggctcc	aaagaatgcg	ccaacacccc	attctggtgg	aaatggttcg	660
	ttcggagatt	tattgtctac	aaactcagtc	ccaagaatca	aacctgttcc	tcttgtctct	720
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<211> 774

<212> DNA

40 <213> Arabidopsis thaliana

<400> 899

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	atagacaaag	atgaagtcac	gatccgtcga	atgaagaaca	gagaaagaca	acgtaggtat	240
	cgagccagga	aacggatgcg	ggaagaagaa	gcgggtaacg	atgataatct	ttcgtttgag	300
	acaatgggaa	aacaagaaga	agaagaagaa	gaagacgagg	gactagagtt	taatggacct	360
	agtggttatg	ttgagaactt	tgtgcggcgg	gtttattgctg	atagaaattg	gaaaaaagaa	420
50	gctagaagag	ctcatttgat	tatgaacaag	gctcaagata	gttcttgtga	gtcgggttaa	480
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	caaacaaagc	agatttcaga	ttcaataatc	tcttcaagat	ttctatthtt	gtagatattg	660
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 ggtaagaaca accgatcgaa cggcggagga aggataaaag ccggccaaaa ccgcttgtaa 660  
 aagccgatt tgccagaaga ggaccggcca tctttgctaa caaagccaaa attaatctcc 720  
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 aacctaggcg ttctgacatg ctgggtggatc cttttggtat agggagaatt gttcaggatg 480  
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10	atcactccac	ccgaactcag	aacagtcgaa	ggagttactg	ccctgatcgg	aactgaaata	720
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<223> n = A,T,C or G

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	aactccatca	gtgtaaccac	tgaacaatgt	gcttccatct	gactccagt	tcaagcttgt	300
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	aataatcgaa	ccgcctcaa	gcgagtaaag	cttctttcct	tcagccaaat	cccacaacaa	540
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35	aactttcaca	gttttatccc	aagaagcaga	tacaatagtt	ggtacaagag	tattaggact	720
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40 <212> DNA

<213> Arabidopsis thaliana

<400> 904

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15 <211> 772

<212> DNA

<213> Arabidopsis thaliana

<220>

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<400> 908

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<223> n = A,T,C or G

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<212> DNA

15 <213> Arabidopsis thaliana

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<211> 772

<212> DNA

35 <213> Arabidopsis thaliana

<400> 911

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<211> 772

<212> DNA

55 <213> Arabidopsis thaliana

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 50 ttgaaggaat cggcaatttc tgaccgccga cgggtgattgc gacgatatta aggccgtaga 720  
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5    gggcaaaatt gcgtcacagt gtgcacatgc tgccaccggc atgtatgcag agttgatgca    360  
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      ttgcaaaaac cagcnagaaa tgaataagat cacagaggct gctgagagcg ttggcctccc    480  
      gacttttgtt gtagctgatg ctggaagaac tgagnnnnnn gctggatcaa gaacagttct    540  
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      ggtaattca ggcaaggcaa tgttggtgtg taatgattat tcaaggtaga tgtagattt    720  
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      tgaggttact tcaatgcctg atatgtatag tagtactgat gggactttga ctatggttgg    180  
      atcatctggc tctgttacta ttgataacag tactgctctt gagaatgtgt ataggctcaa    240  
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 55    tgatcagcct tatatatattg gtgcaggact tggattacca gagactgctg atcccaacat    360  
      gacgattaag tatectacgg ggactcctac ttatgttgct cctgtnnatg tttattcaac    420

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5 aaacggcgctc gatttgggggt ccaccgcctc ggtacgagtc ccgatcactt ctccgtataa 720  
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aaccaaacga ataaaaaaag cccacattat atatatatat cttaccaaac tagagttttt 240  
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	ttaagaaaa	a	ttaaagag	ga	aataaa	actca	aacataca	240
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	aacaaac	aga	ttcacact	aa	ggaaaaca	aaa	accaacaa	360
	aacggcg	gtg	aacaaaca	aaa	caccccg	cg	cccaaatg	420
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	caaaatcca	a	agacga	aaaa	tttagaa	att	gtagattt	600
	aaccgtt	gga	aaaaaaaa	ag	gttcagat	ct	gtcagaga	660
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45	tacatact	ttt	gcatagt	att	tttattca	aaa	acatctt	caa	agtttg	gag	ttggtttg	at	180
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	cagaccacta	actggaatag	attgtccact	gtactcagat	tctttccatt	gtcccaaaag	720
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	aattagggaa	agcatgtaca	caagagaatg	cgcagctacg	tccgagtatg	agatacattg	540
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55	acgaagattt	agtcagtctt	atgtccggcc	ggtagactcg	ttttccggtt	tgctgttggt	660

5    atatagaaat gattgttttt tggtatgctc acgtatattt tgtctgtcta tacgaacttt    720  
      acatgtcaca actcacaagt tgactaaaaa aaaaaaaaaa aaag    764

<210> 944

<211> 764

10    <212> DNA

<213> Arabidopsis thaliana

<220>

<221> misc\_feature

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<223> n = A,T,C or G

<400> 944

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	caccgacgac	agcgcaannn	ngcgannnnng	cgacagtgga	gaaagcagaa	atgagcgagg	180
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	cgtcggcggc	agaagacgga	gacaaggcct	ctgcttcggc	ggagtaggtg	ccgacggaga	300
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25	cgttttgggt	gaggttgaag	agagagttgc	cgtcgttcat	gtacaagatt	gggtccttgg	420
	tgttgcagct	cttgaaattg	gagggcgctc	cttgaatcag	tgagtcttcg	cttggtgggt	480
	acaagaacaa	gagggagtca	ccgatcttga	aagagtgaga	tttgggccat	ttggaataga	540
	cttttagcatc	aattgggatg	ccccaagcgt	ccaagtcccc	aactttgtat	agagtcgacg	600
	acactttacc	aatctcttgt	cccaacaata	tcatacctg	taataccaca	ccaccatcat	660
30	cgataccttc	tcctcatctt	aaaatcatta	tcatgtgaga	ttctatttgt	aacttatgta	720
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<210> 945

<211> 763

35    <212> DNA

<213> Arabidopsis thaliana

<400> 945

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	tatgaaccaa	ttgttttata	tgtttcctct	ggtgtctcca	ggcattctaa	tatcagatgt	300
	ctagagtcaa	tctctgagca	gaagagtaat	agtgagactc	gagctcttta	agattggcag	360
45	atgcatcatc	agcaattcta	gccaacaatc	gatttgtctt	ctcggcctct	tgatcaaact	420
	cttctattct	ttgttctaca	tgatcgttta	gtgatgcaaa	tcctgaaaat	atcgctgttt	480
	gcttaagttc	tgatacgagt	ttcaaaagag	aatcagctgc	ttgaaccatt	ctagaagctc	540
	gcattctccat	catgtatgtc	tcctgcgagt	tcttcaccgg	cggatcactc	acccttgaaa	600
	cattgacgat	ctgctggaag	ttatcgacga	cagatgtgat	gtcagtctcc	actctctgta	660
50	acaacgcctt	ttgcttctgt	aaagccgcgg	cggcggcggc	ggccgttgga	ccgcttcctc	720
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55    <212> DNA

<213> Arabidopsis thaliana

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<220>  
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<223> n = A,T,C or G

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15 tggagtttcc tcgtgatttt ctagggattt cacttgcgga tcagccgaat aagtactatt 240  
tcattatcag gacgcagagg attgtcttgg aagctgattc ttcgattcag ttgattatgg 300  
agaagcttca gtcttataaa tctaaagtgg ctctttactt tgatgggttt cagtatcagc 360  
ttggtgattt taggttgaga gttggtaaag ttgttcctac tcattctgag aatgttagag 420  
gcattgtcat ggaggtggag tatcttccta tatcatcaat ggaaaaggca caaaagggtga 480  
20 tggaggagtt cttggagata tggaaatgaag ctctggctaa aaggctcgtt cggggtaat 540  
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gaggctaaac cannnccannn cttngtannn ctaggtaaaa ttatgtgctt tgcaatatta 720  
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<212> DNA  
<213> Arabidopsis thaliana

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<220>  
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<223> n = A,T,C or G

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ttgatcaatc atacaagaga tttcatcca aaaaaaaaag aaagaagaag caaatagtaa 180  
40 atctctgtac tccagacaaa tcccaatgca aataaaagac ttccaactat gatgtatttt 240  
atgtgagacc aaaataacaa agagctctaa aatagtacaa acgggcatgc gggtaatcag 300  
gaagatatag ataatttaag caaaaaacaa actgggactg tgactacttt gctcaggatt 360  
gcacggccag tttctgaaga tgttcaataa agacttgacg gctcacatcg tcagtgaaga 420  
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catggaagac aacaacacta aaatatgcat ctaatnnnag aatctnnna gctgcaatgg 720  
aagccacatc cagcaaagct gcctgaggtc ctgaattgaa tga 763

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<210> 948  
<211> 763  
<212> DNA  
<213> Arabidopsis thaliana

55

<400> 948

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	atgtcacgaa	agacgttgca	gaggagaaaa	ttcaaaaccc	acctccggag	caaatttccg	180
	atgactccaa	agcccttact	gttggtgaga	aacctgtaga	agagcctgca	cggcgaaaac	240
	ctgcgtctgc	atcgctcgat	agagatgtta	agctagctga	tttgtcaaag	gaaaagagat	300
10	tgtctttcgt	cagagcgtgg	gaagaaagcg	aaaagagcaa	agcagagaac	aaagctgaga	360
	agaagattgc	agatgttcat	gcttgggaaa	acagcaagaa	agcagctgtc	gaagcgcaac	420
	tcaagaaaat	cgaggagcaa	ctagagaaga	agaaagcaga	gtatgcagag	aggatgaaga	480
	ataaggttgc	agcgattcac	aaggaagcag	aagagagaag	agcaatgatt	gaagctaagc	540
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15	ttccaaaggc	aaactgtgga	tgtttctaat	cttgaatttg	cgaatcaaag	tttcaagact	660
	ttgtaactgt	aaagtgtaat	caaatttctc	tgttctcttt	aatggcttgt	aatgttgttt	720
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<210> 949

20 <211> 763

<212> DNA

<213> Arabidopsis thaliana

<400> 949

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	tatactgact	ttgttttctc	ttgattatct	agctggatat	cgttgaactg	cttatcaagg	180
	gatgcaaatc	gctcaagaac	tacgagaaga	aggttaaaaat	gatcaactca	aatccataac	240
	attgccttca	cgtgtttaca	aattaaccat	ttcattctgc	tttctctgtt	ggtgttcttc	300
30	tcgaactttt	gcaacgcata	tgcataatca	catagcagtt	agcgtacgct	tttctgatat	360
	tatgttgtgt	cttgtgttat	tacagtgcac	gacgttggtg	tttgaatatg	gacctctgat	420
	actcgtaaat	gcagaggaat	tcctagtcaa	aaacgcagtc	tgcacactct	tgcgcgcata	480
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	gttgctataa	caggatttta	attccttatg	gggtatacaa	gtaggaacac	gagctgctcc	600
35	atgagaatgg	ttgcagactt	tgtgtagtgt	ctatatgtat	ggattcaaac	acatcctcca	660
	aaatgtccct	ttgcctttgt	gtaataaatg	atcgctacaa	caattgtacc	tctactatga	720
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<210> 950

40 <211> 762

<212> DNA

<213> Arabidopsis thaliana

<220>

45 <221> misc\_feature

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<223> n = A,T,C or G

<400> 950

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	ttctctaaaga	cttttagctt	tttgtatagc	tgtgatgctg	atcgcnntct	cgggtgatctt	180
	cttggcagct	actagctaaa	gatatttttg	ttcctcgtga	gnnntgtggc	gactcctcaa	240
	tcagattacn	ngagttttgt	attcttccag	caacttcgag	atgtcattaa	tccgcaactc	300
55	ggaagaactt	ttgatatgat	aaaacgtaaa	ggctcttcgt	ccagggaggc	caaaatcagc	360
	agatgttaag	ctgctctgtg	tagtgaaaat	tcgtgtaaca	agtcgctgat	aatctcgaag	420

5 taaggaacca agctctttta gttgtaaagt tctcggagtg gactgtttcc aatgctgacg 480  
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taatcttggt cctaattcaa caaactcttg atcttctgac tcctcgggaa tttgaaggcg 600  
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<211> 762

<212> DNA

15 <213> Arabidopsis thaliana

<400> 951

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20 tttcaagacg gctacccgac acgtgcgaaa acagacagtg atagtttcca ctttccacta 180  
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cgtcgaccac atctgattcc cgcccaatag ccgtgacaca atctcgttat cggcgatggc 300  
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25 cgtgtcagtc acaggcttta acccgctctc gatatcgctt cgtcgcttct cgatgacacc 480  
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atgttgaggt tttcccgagt aaaacactag agccttctta ataccaaccg gtttaggacg 660  
acctattggt ttatcagctc cggtagcttt ccaatatcca gtaccagctg cacggttggg 720  
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<210> 952

<211> 762

<212> DNA

35 <213> Arabidopsis thaliana

<400> 952

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40 ctccgaggtt tcagctgagc attgcaatct tgatgaagag agagtttgat tgggttggtg 180  
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45 aagtttcatt tgacgcagaa gtcactctgt ctaccaaacc aatcatagct gcacaaagag 480  
tcacaagcga gtttgctatt gagacggaat cagatgatta ttttgagca ttccatgatt 540  
caagctggca ttttttcagt tctggtatag attcggagct gccattgttc gtttcagact 600  
aatttttagat cattgttttc aaaagctttt tgattttcac ttgtgcaaca tttgttttat 660  
ctgtcttttt cctccttgca taatcttagc cttcaaggcg ggcaaaaaca ttgaagttat 720  
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<211> 762

<212> DNA

55 <213> Arabidopsis thaliana

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<212> DNA  
<213> Arabidopsis thaliana

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<212> DNA  
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<211> 762
10 <212> DNA
    <213> Arabidopsis thaliana

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   tttatttcctc cccgatcccaa ccaacccccc caaccagata agacacttag gaactgagac 180
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   tgcaagtcca cgagtccaag caaaaataga ggctatgctg tttgtgctgg tctcaccacc 480
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<211> 762
30 <212> DNA
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   catggaacct agaagatgat aacagtaata ataaaagcaa aaggcaatca acggtaacga 180
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 55 cttttgggtt tcttttgcag gttcaaatta acacttccaa ttttggaag ctgaaaattc 240  
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	gattctctga	tgaatatattc	gagctaateg	gctgaagnnn	aaaattttcg	tgatcaagtt	480
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	ttgcataaca	cgtgtcattt	tgttttcctt	atcttggtgt	gttgcaatta	gtgggccaac	720
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	accagtcaca	caacagttaa	caatagaaat	tccgaccaca	aaaacacaaa	ttatagaata	180
	cacggtggtg	ttatttagag	ttctcogage	aaactcagat	gtgagccttg	acaacggtaa	240
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	cagcatttgg	atctcttact	ggnnncaggc	agacaaatct	ctgggacaga	aactagcaac	600
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5 tataaaactca atatgctcct cttacggttt ggtttctaag taatctcggt tattgacaat 720  
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<211> 759

55 <212> DNA

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ccacgattgc tctgcgaaac tcatcattgt gaagtataaa ggaagacacg tgtccacctg      180
10 tgacccatct cacttctgaa ccaggccacg ccttttgaag ctccaacact gagtgttttg      240
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gagtcattgt gatcttctgt gctgcaagtt cctccctcag tgcctcccaa gcagtcccat      420
actttaatat tccttcgcag aatgcaacaa cagcagagtg cggagatagg aatggaagtg      480
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gcccacaaac acccatcttt ccaaagcctt cctcagtgtc tagccagtga ataagactgc      600
gggactcttc gattgttgcc ctccctagca aaagtagatc actaacacag aggagtctcg      660
caccgcattg aagaaaaggga cgcctttggc catagaaagg gctgcagtgg cattatcttt      720
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30 agacgggaga gagccgtgga agcgggtacg tgacaatggg ttctataaac tctgccaaaa      240
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<212> DNA
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<223> n = A,T,C or G

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ggataaaaga tgatccaact gtgaacctgg cgggaggcaa aatgcagaca gtcacttcct      180
55 cttgctgttc ccaatactga ggagctcaag gctctggagg gtaatgtcac gagcggctct      240
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5	tgtagaagac	cgatcattgt	ttgggatgag	tctgcttaat	cgattctctg	tgaaatcagc	360
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	agataaagag	tttgggtctct	cctgggtttt	cgtgtccttg	gatgcaagaa	cattctctga	480
	ggttcttggg	ctactagact	gatcagcttg	aacgccgggt	cctgagccat	ttcttctggg	540
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10	cgctttgtcg	gcagatggta	ctggaatatt	catagctggg	cttaaagtgt	gctaattggaa	660
	caggaaaagc	gtgagaagg	tgatacacta	ttcaaatga	taagaattct	gcacatacag	720
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<212> DNA

<213> *Arabidopsis thaliana*

<400> 968

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	gcaaatacagc	cgtttctgct	tctgacttct	tctactccgg	tttaggtggc	cccttagaca	180
	cgtcaaacc	taacggagta	accgttgctc	ccgccaacgt	cttaaccttc	ccgggtctaa	240
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25	acttgacccc	gcgtgcaacc	gaagtaggaa	ctgtgatcga	aggctcgggt	tttgtcggat	360
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	tccctagagg	attggttcat	ttccaatgga	acgttgacca	agtgaagcgc	cgaatgataa	480
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	ttcacaataa	gctttatagc	aatattggta	tacacttgct	tctgtaataa	tcgggtatgaa	720
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<212> DNA

<213> *Arabidopsis thaliana*

<400> 969

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45	tttgctctgc	ttgtttgttg	agcttcagg	gccgcaacat	catcactcca	ctcagtagca	360
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	cagcaagggc	aataccatcc	tccccaatat	tcatactagg	agtcagtcct	agtcccccaa	480
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	ttttctgcat	aatgttggct	ttgtgaattg	cagaaacttt	cttccttccg	tgagtcttgg	720
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ttccgagggg ttttaccag tatataatca atctgggac tagcaaagtc acgtagcaca      720
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<212> DNA

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30 <223> n = A,T,C or G

<400> 971

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tttttttttt ccgtcaacgt tcctgtattc cggctctgtg tgcttttgta gcaatctatt      720
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<212> DNA  
<213> Arabidopsis thaliana

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    gaaacaaata tttcgccctga gcttgagcaa agcttccttt agcttcaatg ccatgagccg      360
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20  atttttggtg aaagttaaaa atgattctta cttaattcat tcttttattg tttcttctac      660
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    gtcttatgtc tagcatctct ggctttttta gtagtggttg ctggctcttg cccggcagcg      180
    ttgtttccat gagcgtcggt ggccggattt ggtttgtatc caacgttggt ttgtttttct      240
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40  atctttatta tccaattcga tcttttgagt ttgagatttg caggaatcaa tttagagatt      360
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45  acacgtaaga ttggttgagg ccacaatatc agttcttcat ctttaagcaa tgttcttgga      660
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atgaggtcga tttgggaacc gatgctagggc attgcttctg taaagagagt gacttggttg      660
ccttcgttga gtgaagtctt gtccaagagg gagagatttg aagattttac aagttttctg      720
taattttcag acagcaattg ttgtttctag ttaatt      755

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<210> 989
<211> 755
<212> DNA
<213> Arabidopsis thaliana

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25

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atgcattctt gtccgctgct caactcacc cttaccttcta cgatagggtc tgctcctaag      180
30 tcactaacat cgtacgagaa accattgtaa atgagtttaag gtcggaccct cgtatcgctg      240
cgagcatcct tcgtcttcac ttccacgact gctttgttaa tggttgtgac gcatccatct      300
tgttagacaa cacgacatca tttcgaacag agaaagatgc gtttggaaac gcaaattcgg      360
ctcggggatt tctgtgatt gatagaatga aagctgcggg ggagagggca tgccaagaa      420
ccgtttcatg cgcagatatg ctcaccattg cagctcaaca atctgtcact ttggcaggag      480
35 gtccttcttg gaggttctt ttgggaagga gagacagttt acaagcattc ctggaactcg      540
ctaattgcaa tcttcagct ccattcttta cacttcaca acttaagcc agcttcagaa      600
atgttggtct cgatcgctct tctgatctcg ttgctctctc cgggtgggtcac acatttggtg      660
aaaatcaatg tcagtttatt cttgacagat tatacaattt cagcaacaca ggtttaccgg      720
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40

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<212> DNA
<213> Arabidopsis thaliana

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45

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<220>
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<222> (1)...(755)
<223> n = A,T,C or G

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50

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aacaggagtt ccatcacctg nnagtatact gaaccagaga cccaactcc attttcgtca      180
55 aggtttgatg aagggagtgn nnacgagtgt agtacaagtg cttcctctct tcaagtgcgn      240
nngctaattc acattgatga ttgtccatnn gatcttcggt cactaccaca atcaatgggt      300

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5	tcocctagttt	cagtgtctca	aatatacttc	cagatccagc	gtgactaata	acaagagatg	360
	cagatcgaat	ataatcagcg	atacttgagg	aaaatgtgaa	gtaatccaca	actaatgatc	420
	catccgctcc	atcacactta	gttgggaaaa	agattcctcg	acccatttga	ataagaagat	480
	gagtaaatacc	tctctttctgc	agttcgtctt	taacattttg	actaaccact	gctttcacaa	540
	gagcatcgaa	actcgttggt	cctacagtta	caaacactac	tctctttgca	ttctctctat	600
10	cctcctccat	ttttaaactt	ctcgattccc	aattccaaat	ctaccaaatc	agactgagga	660
	tacaaaagca	ccgatcgatc	ttaagaggca	gatccaagaa	tcttgctttg	ggatgaatcg	720
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15 <211> 755

<212> DNA

<213> Arabidopsis thaliana

<400> 991

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	aattttctggt	tttgaatctg	aataatttca	agttcttgtc	caaggaatat	aaccccacca	180
	agcgctgcc	aacacccgag	atctctagtt	catggcaatc	caaacgtgaa	catggttttt	240
	gccttcaata	tggtaggcta	tactattatt	gctggacctt	cctgaattct	ctaagaactg	300
25	ggtagatatt	ctcaaatgcg	gtataagtct	cttctctcat	cttggctcca	gttataacaa	360
	tctttcctga	cacaaaaata	agcagtacaa	tctttggtag	tttcatccta	tatatcaatc	420
	ctggaaatag	ctcaggctcg	taacttgaga	aagcactgtg	agagtatgca	agaccttcaa	480
	gcctaattggg	gaatttgaca	tcacatgagc	ctacaatgtt	ctgaatctta	aaatccttga	540
	actttgcagg	aaatccaagc	ttctgaacaa	tccgagcata	ctttcttgca	gccagctttg	600
30	aaagatgttc	acttttagct	ccggtacaca	ccattttccc	agaagcaaaa	attaacgctg	660
	tggtctttgg	ctctctgatc	ctcatgatta	cagcagcgaa	acgcttgggg	ttatattcag	720
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35 <211> 754

<212> DNA

<213> Arabidopsis thaliana

<400> 992

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	cttctgaatg	tagtagagag	caacaatggt	catcatacca	ccagagtaag	tcctaagcc	180
	tgtttatatc	aaatcttctg	taccgttttt	cgcacttctt	gttccgagct	attggtttct	240
	tgttcacgat	tatgattcag	tgagcactaa	ttccttatcg	caaactggac	acgcctcgct	300
45	tctttccatc	catgcaagaa	tgcaagcgag	atgaaagtca	tggccacatt	tagtgagcaa	360
	tttcgggtta	tcaatctcat	attcttctaa	gcaaattgga	cattcatcga	ttgcttctcg	420
	atactgtttc	tttagctcaa	aatcagttag	atcatcaaca	tgccatgttt	tcttctctgg	480
	aacaacttgt	gtgagtcceg	gggatgcttc	actcgaattg	ccctgagttc	ttggcaattt	540
	cgggtggacta	gtttgaagat	ttatatctgt	gatggctaaa	ggaataggcg	gcgaaagagg	600
50	tgaactgtat	gcattagaga	gagaggaagg	cgtggcacga	gataagggaa	gatgctcatc	660
	tatagttctt	gagctttcgg	gtatactcgg	gagacaacag	cagcaaccca	ttctttggta	720
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10 <223> n = A,T,C or G

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15	tcccaagtct	cagagaacag	agtcatagcc	attgatctaa	tgtacaacac	ccaaaagaag	180
	agaagattga	ttgtttgggc	taagaaaaca	gaaagagcgt	aaccaacccc	gtagtagaga	240
	gtttcagata	accttcttct	tctcgaaaaa	cgtcttcaag	tgcaaaaact	gcatccctgc	300
	aactcctatg	cagacgaaaa	acgagagaac	actcaaccac	gccatttttg	tgtagtgga	360
	ccggttcaag	tcttgcatct	cttcttccct	atctctaaga	taatacatct	cttcatgaat	420
20	cgagttaaca	gtatcaagaa	gactctttac	ttcaaattcc	ataacttcga	cttgactctt	480
	cttagcaaca	ttagccagc	ttttagattg	aacaccagtc	ttccactcaa	agtcaatact	540
	caacgaaacc	tcaggcttat	gatcaacagc	agtgaacaaa	gccatgtaat	cacctgcttc	600
	aacagccgag	aatgcgaatt	gtcctgaann	nacttggtcc	gcgtgatggg	aattgtnanc	660
	ngaattagac	gtcacnnnna	cggaaat	gtgagttt	ggtaaagctt	gaccttcgtg	720
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<210> 994

<211> 753

<212> DNA

30 <213> Arabidopsis thaliana

<400> 994

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35	attcagaaac	ataagtgcaa	taatggactg	tgtaggctgt	gagaaatgcc	gtctatgggg	180
	aaagcttcag	attctcggtc	tcggtaactgc	attgaaaatt	ctattcactg	tcaatgggtga	240
	agacaatttg	cgtcataatc	tcgaattgca	aaggaacgaa	gtgattgcgc	tgatgaatct	300
	tctccaccga	ttatctgaat	ccgtgaagta	tgttcatgac	atgagtctctg	cggccgagag	360
	aatcgcaggt	ggacatgcct	cttcagggaa	cagcttttgg	caaagaatag	tgacatctat	420
40	agcgcaatca	aaagctgtat	ctgggaagag	aagctagatg	ttcaatgagg	tctggggggt	480
	gtgggatcaa	gcgcagtgat	ggcgggagag	tatactttgt	tgtaaagtaa	agagagggtta	540
	attttgcagg	aaacagttat	acaaagcccc	gttagatgcc	aacccgaagc	tgagaacttt	600
	ttgatttacc	ctttaacgtg	aatttagaga	atcttacatg	aaactaaaaa	tattgtacgg	660
	attttgaat	ttgttgacag	tcccttctga	agtaaacata	gaatgggtgg	aaaaacgtga	720
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50 <213> Arabidopsis thaliana

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55	ggcaggatgg	cttcttggtg	tcgaaaatgt	atttacttga	agcctaagtt	ggagaaatta	180
	gcggcagaat	ataataaccg	gtaagctaac	aaaagaatca	acaatttaca	tggtatgttat	240



5 tgcaaagggtt gattatattg tgaacaaaaa tgatttttct tacaacagag caaagtttta 300  
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atgcttaaac ataattttgt ctttcttttc tgatgtggta tgtgccaaat ctgaaccaat 420  
tacttccata ttcgtgtgtt atgcagaaaa tgccactat tcaggatatgc ttactttcat 480  
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10 aaaagtaaat taacataata atgagaaaaa tgagtgggtga atgcagttat ggaaggaaga 600  
tgagatgaaa gaggaggtga ttggaggtca caaaggatgg cttgtcatcg aagaagttag 660  
agaattgatc aacaaatttg tctagttctc tctttttttt catttcctac cttttttttt 720  
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aaaaaataaa attaagaaaa aaaccatgtc gagattctga caaaacgatg aacaaaaact 180  
atatttatga tcttcttctt cttcatctgg gcttttttat cccaatttt cttctcattg 240  
25 tgtttttggc ttctcgatct tgacataagg gagaactccc agaaagtatt ttacctttgg 300  
gttccatcca cgttgctgag ctctgcagaa catcaagaat gtgtttgcgc agtaagagtt 360  
gaaactcatg aacacatgcc acagagcatg tccctgagga ttcacaggcc actgagatat 420  
cgtcttgagc aagacacggc cacagaacca gcataatgctt cccactaaga tcgtagcaac 480  
ataccatttc gcaatccttt tggtctgtgt gtctctctgtg tgaatgtagt acttgtaacat 540  
30 ccgaggggat catagaaggc aaagtatcac gtagtggacc ttgaaaccaa ttccaaacct 600  
gaggttaagca tggactatgg caaaggcagc accgtagagg aagagaaaag tgggcattgt 660  
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35 <210> 997  
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<212> DNA  
<213> Arabidopsis thaliana

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tccacgtgta acttaacct aaggctccca gttcagtaaa catggaaagt gaacaagcga 180  
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45 tgaggaaaaac gacacatacg aagctaaaat gtcctcata ggcgagaatg gtctcgacgg 300  
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cagctccatc gagtcaacag tcgtgattcg tgagctgacg tcacaaggtc tctcctttca 420  
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cgtcacgggtg acggatctcc cacacgtctt agataatctc aacttcaacg ccgaagcaaa 660  
cgctgaaatt gttgagagat tcggcgggaa agtcaacgtg gcaccactac gatggggaga 720  
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55 <210> 998  
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5 <212> DNA  
 <213> Arabidopsis thaliana

<220>  
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 <223> n = A,T,C or G

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 caagggtacg gatcaggtgg ccaagggtac ggaaccggtg gccaggata cggaaccggg 180  
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 cacaaggaaa gtggtggtgg cttgggagga atgcttcacc gctccggatc tggatccagc 300  
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 gacaagatca aggaaaagct tcccgggtggt ggccgttaag cttcgaacaa tcgtgtatac 540  
 atattaaata aaaataatga gggtttgtaa cgcagtcgca ttcggtcgtt gtattgtgct 600  
 ttttatgtat gtaagtcttg cgatgtgtgt tgtttactta catgagtgtg taatgagcat 660  
 25 ctggctctnn nnnnnnnctg agatgtttgt gttatgtaat ttcacatcta tataaatcta 720  
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<210> 999

<211> 752

30 <212> DNA  
 <213> Arabidopsis thaliana

<400> 999  
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 35 tggaagattt agattctacc aaactgatgt caaaagattt actacaacaa gaaattcttt 120  
 aacatccaaa gataacaact taaaataagc tagaatcaac aaaaatcttt aaagatcaaa 180  
 acacttttta accagtgatg ttctgagact tggtgaggat aactccttca tacttgacct 240  
 ggaaccattt cattgcatca tccttggtta ctctgtgttg aataccaaca cgagtcttgc 300  
 atctacggcg gcgagccaca cgatatcctg ggcgttcaag gacaacgtaa aagtccattc 360  
 40 cgtagatacc agtggaagga tcgtacttga ttccaagatc aatgtgctct tggataccaa 420  
 atccaaagca accagtgtca ctgaagttcc tcctaagaag ctcatactcc ttaactttca 480  
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 tttgtccact gagctgctcc aacaccttgg aggacagagt gagacgatca ccactctcac 660  
 45 caacggaaat gttgagaaca agtttctgaa ccttaatgtc cctcatgggg ttcgagagct 720  
 tcttctccga cgccatttta aggagatcaa tg 752